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ds key

Intel Core i7-1185G7 testing with a Dell 0DXP1F (3.7.0 BIOS) and Intel Xe TGL GT2 15GB on Ubuntu 22.04 via the Phoronix Test Suite.

Automated Executive Summary

a had the most wins, coming in first place for 60% of the tests.

Based on the geometric mean of all complete results, the fastest (a) was 1.036x the speed of the slowest (c). b was 0.966x the speed of a and c was 1x the speed of b.

The results with the greatest spread from best to worst included:

KeyDB (Test: LPOP - Parallel Connections: 50) at 1.461x
KeyDB (Test: LPOP - Parallel Connections: 100) at 1.378x
KeyDB (Test: LPOP - Parallel Connections: 500) at 1.371x
KeyDB (Test: HMSET - Parallel Connections: 50) at 1.292x
KeyDB (Test: LPOP - Parallel Connections: 900) at 1.278x
KeyDB (Test: GET - Parallel Connections: 500) at 1.094x
KeyDB (Test: GET - Parallel Connections: 900) at 1.082x
KeyDB (Test: SET - Parallel Connections: 100) at 1.075x
Neural Magic DeepSparse (Model: NLP Text Classification, DistilBERT mnli - Scenario: Asynchronous Multi-Stream) at

1.075x
Neural Magic DeepSparse (Model: NLP Text Classification, DistilBERT mnli - Scenario: Asynchronous Multi-Stream) at 1.075x.

Test Systems:

a

b

c

Processor: Intel Core i7-1185G7 @ 4.80GHz (4 Cores / 8 Threads), Motherboard: Dell 0DXP1F (3.7.0 BIOS), Chipset: Intel Tiger Lake-LP, Memory: 16GB, Disk: Micron 2300 NVMe 512GB, Graphics: Intel Xe TGL GT2 15GB (1350MHz), Audio: Realtek ALC289, Network: Intel Wi-Fi 6 AX201

OS: Ubuntu 22.04, Kernel: 5.18.8-051808-generic (x86_64), Desktop: GNOME Shell 42.2, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 22.0.1, OpenCL: OpenCL 3.0, Vulkan: 1.3.204, Compiler: GCC 11.3.0, File-System: ext4, Screen Resolution: 1920x1200

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-serialization=2 --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debian/tmp-gcn/usr --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-build-config=bootstrap-lto-lean --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: intel_pstate powersave (EPP: balance_performance) - CPU Microcode: 0xa4 - Thermald 2.4.9
Python Notes: Python 3.10.6
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	a	b	c
KeyDB - HMSET - 900 (Reqs/sec)	**334560**	**316316**	324929
Normalized	100%	94.55%	97.12%
KeyDB - HMSET - 500 (Reqs/sec)	**339833**	**331139**	333227
Normalized	100%	97.44%	98.06%
KeyDB - HMSET - 100 (Reqs/sec)	**351400**	340382	**333220**
Normalized	100%	96.86%	94.83%
KeyDB - HMSET - 50 (Reqs/sec)	**555130**	516972	**429705**
Normalized	100%	93.13%	77.41%
KeyDB - LPUSH - 900 (Reqs/sec)	**745145**	727590	**725637**
Normalized	100%	97.64%	97.38%
KeyDB - LPUSH - 500 (Reqs/sec)	789391	**800192**	**785016**
Normalized	98.65%	100%	98.1%

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KeyDB - LPUSH - 100 (Reqs/sec)	835324	**846181**	**809887**
Normalized	98.72%	100%	95.71%
KeyDB - SET - 900 (Reqs/sec)	**887233**	877763	**876870**
Normalized	100%	98.93%	98.83%
KeyDB - LPUSH - 50 (Reqs/sec)	873561	**878488**	**873134**
Normalized	99.44%	100%	99.39%
KeyDB - LPOP - 900 (Reqs/sec)	**1093757**	859048	**855915**
Normalized	100%	78.54%	78.25%
KeyDB - LPOP - 100 (Reqs/sec)	**1164497**	**844894**	855593
Normalized	100%	72.55%	73.47%
KeyDB - SET - 500 (Reqs/sec)	**947957**	**952000**	949884
Normalized	99.58%	100%	99.78%
KeyDB - LPOP - 500 (Reqs/sec)	**1187254**	869338	**865951**
Normalized	100%	73.22%	72.94%
KeyDB - LPOP - 50 (Reqs/sec)	**1237409**	**847142**	860363
Normalized	100%	68.46%	69.53%
Neural Magic DeepSparse - N.D.C.o.b.u.o.l - A.M.S (ms/batch)	**548.9192**	**582.4832**	569.0946
Normalized	100%	94.24%	96.45%
Neural Magic DeepSparse - N.D.C.o.b.u.o.l - A.M.S (items/sec)	**3.6432**	**3.4334**	3.5142
Normalized	100%	94.24%	96.46%
KeyDB - SET - 100 (Reqs/sec)	974545	**923907**	**993601**
Normalized	98.08%	92.99%	100%
KeyDB - SADD - 900 (Reqs/sec)	**971534**	982241	**987869**
Normalized	98.35%	99.43%	100%
Neural Magic DeepSparse - C.S.9.P.Y.P - A.M.S (ms/batch)	**291.2011**	**291.8002**	291.575
Normalized	100%	99.79%	99.87%
Neural Magic DeepSparse - C.S.9.P.Y.P - A.M.S (items/sec)	**6.8672**	**6.8531**	6.8583
Normalized	100%	99.79%	99.87%
KeyDB - SET - 50 (Reqs/sec)	1016157	**1026610**	**970271**
Normalized	98.98%	100%	94.51%
KeyDB - SADD - 500 (Reqs/sec)	**1049120**	**979432**	1019514
Normalized	100%	93.36%	97.18%
KeyDB - GET - 900 (Reqs/sec)	**1098732**	1022516	**1015167**
Normalized	100%	93.06%	92.39%
Neural Magic DeepSparse - N.T.C.B.b.u.c - A.M.S (ms/batch)	**611.4515**	**632.7937**	622.8627
Normalized	100%	96.63%	98.17%
Neural Magic DeepSparse - N.T.C.B.b.u.c - A.M.S (items/sec)	**3.2707**	**3.1604**	3.2108
Normalized	100%	96.63%	98.17%
Neural Magic DeepSparse - N.T.C.B.b.u.S - A.M.S (ms/batch)	143.1989	**142.6845**	**143.2006**
Normalized	99.64%	100%	99.64%
Neural Magic DeepSparse - N.T.C.B.b.u.S - A.M.S (items/sec)	13.9641	**14.0144**	**13.9639**
Normalized	99.64%	100%	99.64%
KeyDB - SADD - 50 (Reqs/sec)	**1069336**	1064237	**1049935**
Normalized	100%	99.52%	98.19%

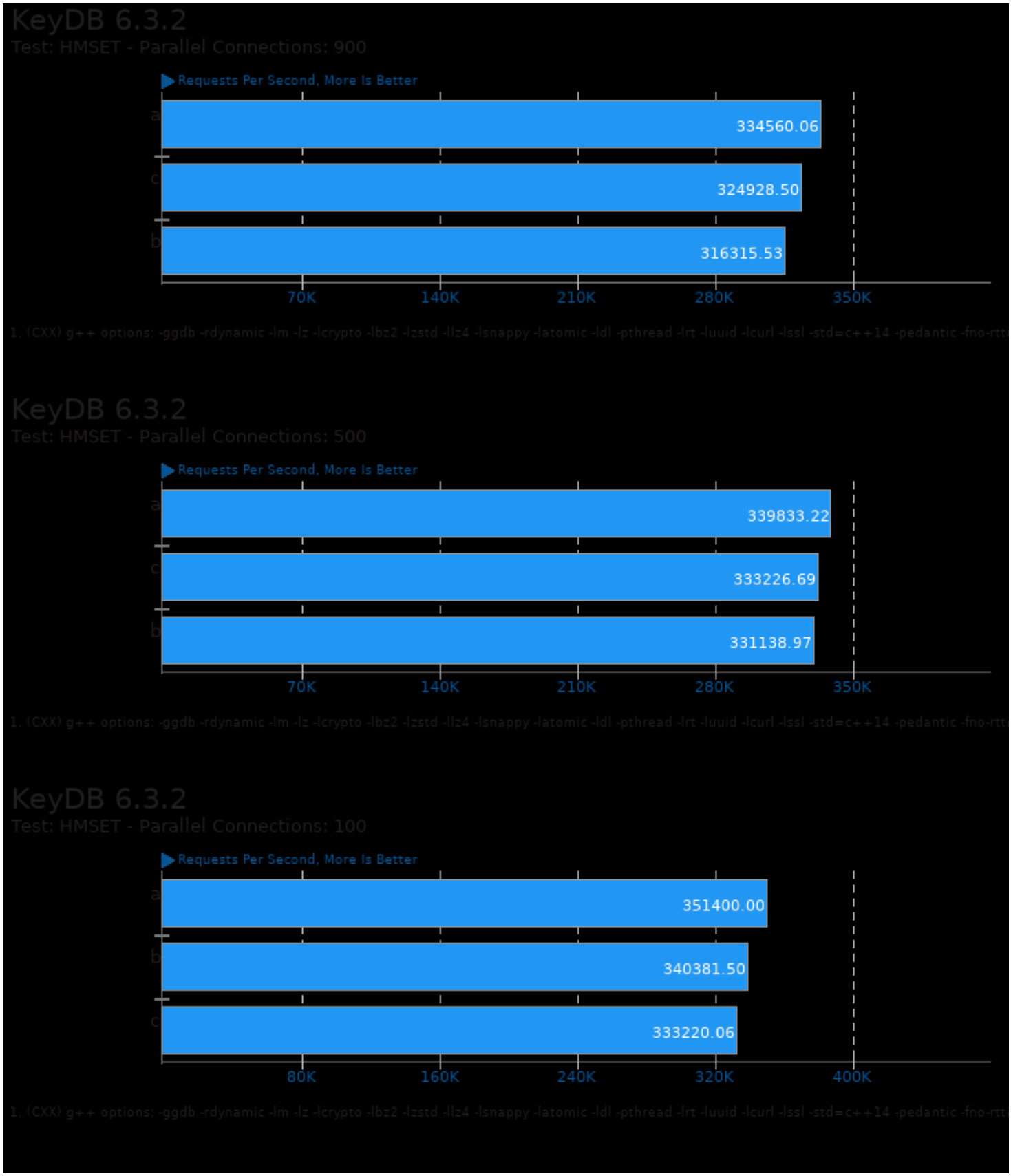
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KeyDB - SADD - 100 (Reqs/sec)	1056636	1069153	1078702
Normalized	97.95%	99.11%	100%
KeyDB - GET - 500 (Reqs/sec)	1142518	1044517	1108672
Normalized	100%	91.42%	97.04%
Neural Magic DeepSparse - C.S.9.P.Y.P - S.S.S (ms/batch)	146.4805	146.4225	146.8947
Normalized	99.96%	100%	99.68%
Neural Magic DeepSparse - C.S.9.P.Y.P - S.S.S (items/sec)	6.826	6.8287	6.8067
Normalized	99.96%	100%	99.68%
KeyDB - GET - 100 (Reqs/sec)	1149108	1102925	1092729
Normalized	100%	95.98%	95.09%
KeyDB - GET - 50 (Reqs/sec)	1177884	1135615	1108279
Normalized	100%	96.41%	94.09%
Neural Magic DeepSparse - N.T.C.B.b.u.c - S.S.S (ms/batch)	310.6043	311.6435	311.6303
Normalized	100%	99.67%	99.67%
Neural Magic DeepSparse - N.T.C.B.b.u.c - S.S.S (items/sec)	3.2194	3.2087	3.2088
Normalized	100%	99.67%	99.67%
Neural Magic DeepSparse - N.S.A.8.P.Q.B.B.U - A.M.S (ms/batch)	31.09	31.2321	31.3553
Normalized	100%	99.55%	99.15%
Neural Magic DeepSparse - N.S.A.8.P.Q.B.B.U - A.M.S (items/sec)	64.2481	63.9514	63.7129
Normalized	100%	99.54%	99.17%
Neural Magic DeepSparse - N.T.C.B.b.u.S - S.S.S (ms/batch)	75.7368	75.0465	75.1797
Normalized	99.09%	100%	99.82%
Neural Magic DeepSparse - N.T.C.B.b.u.S - S.S.S (items/sec)	13.2023	13.3236	13.3
Normalized	99.09%	100%	99.82%
Neural Magic DeepSparse - N.Q.A.B.b.u.S.1.P - A.M.S (ms/batch)	122.2412	122.3064	123.2349
Normalized	100%	99.95%	99.19%
Neural Magic DeepSparse - N.Q.A.B.b.u.S.1.P - A.M.S (items/sec)	16.348	16.3411	16.2252
Normalized	100%	99.96%	99.25%
Neural Magic DeepSparse - N.D.C.o.b.u.o.I - S.S.S (ms/batch)	312.3036	312.806	314.331
Normalized	100%	99.84%	99.36%
Neural Magic DeepSparse - N.D.C.o.b.u.o.I - S.S.S (items/sec)	3.2019	3.1968	3.1813
Normalized	100%	99.84%	99.36%
Neural Magic DeepSparse - N.Q.A.B.b.u.S.1.P - S.S.S (ms/batch)	59.6361	59.8888	59.7819
Normalized	100%	99.58%	99.76%
Neural Magic DeepSparse - N.Q.A.B.b.u.S.1.P - S.S.S (items/sec)	16.7654	16.6946	16.7245
Normalized	100%	99.58%	99.76%

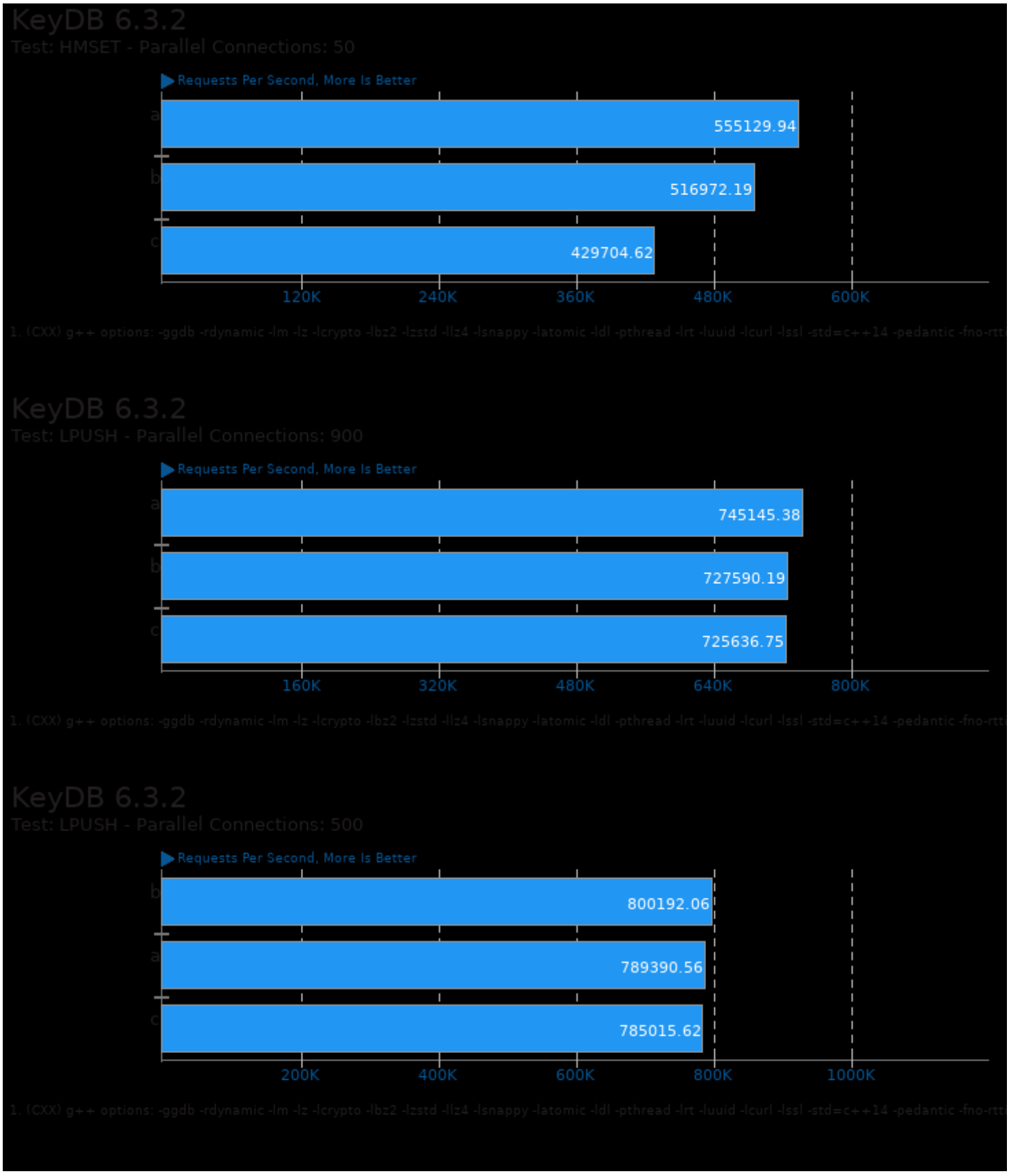
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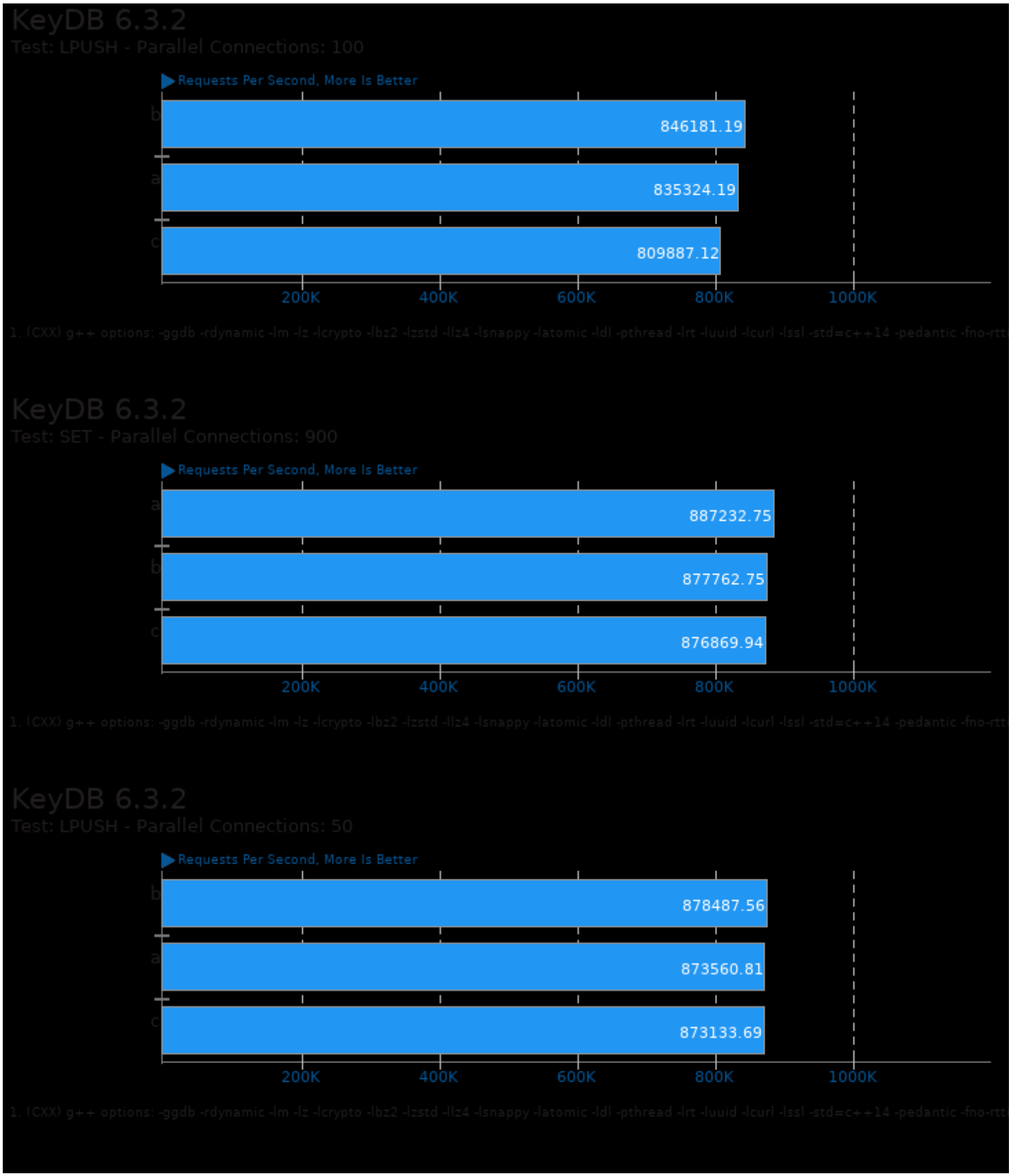
Neural Magic DeepSparse - N.S.A.8.P.Q.B.B.U - S.S.S (ms/batch)	**17.4128**	**17.3259**	17.3623
Normalized	99.5%	100%	99.79%
Neural Magic DeepSparse - N.S.A.8.P.Q.B.B.U - S.S.S (items/sec)	**57.3951**	**57.6809**	57.5623
Normalized	99.5%	100%	99.79%
Neural Magic DeepSparse - N.T.C.D.m - A.M.S (ms/batch)	**67.4364**	**72.4726**	68.0739
Normalized	100%	93.05%	99.06%
Neural Magic DeepSparse - N.T.C.D.m - A.M.S (items/sec)	**29.6472**	**27.5874**	29.3697
Normalized	100%	93.05%	99.06%
Neural Magic DeepSparse - C.D.Y.C - A.M.S (ms/batch)	95.4102	**95.2684**	**95.4109**
Normalized	99.85%	100%	99.85%
Neural Magic DeepSparse - C.D.Y.C - A.M.S (items/sec)	**20.9532**	**20.9856**	20.954
Normalized	99.85%	100%	99.85%
Neural Magic DeepSparse - C.C.R.5.I - A.M.S (ms/batch)	**37.5301**	37.4795	**37.4021**
Normalized	99.66%	99.79%	100%
Neural Magic DeepSparse - C.C.R.5.I - A.M.S (items/sec)	**53.2299**	53.3125	**53.4162**
Normalized	99.65%	99.81%	100%
Neural Magic DeepSparse - N.T.C.D.m - S.S.S (ms/batch)	37.4214	**37.2266**	**37.5642**
Normalized	99.48%	100%	99.1%
Neural Magic DeepSparse - N.T.C.D.m - S.S.S (items/sec)	26.7169	**26.8567**	**26.6154**
Normalized	99.48%	100%	99.1%
Neural Magic DeepSparse - C.D.Y.C - S.S.S (ms/batch)	54.6625	**54.6207**	**54.8399**
Normalized	99.92%	100%	99.6%
Neural Magic DeepSparse - C.D.Y.C - S.S.S (items/sec)	18.2894	**18.3035**	**18.2301**
Normalized	99.92%	100%	99.6%
Neural Magic DeepSparse - C.C.R.5.I - S.S.S (ms/batch)	**19.399**	19.4024	**19.4068**
Normalized	100%	99.98%	99.96%
Neural Magic DeepSparse - C.C.R.5.I - S.S.S (items/sec)	**51.5187**	51.5115	**51.4994**
Normalized	100%	99.99%	99.96%

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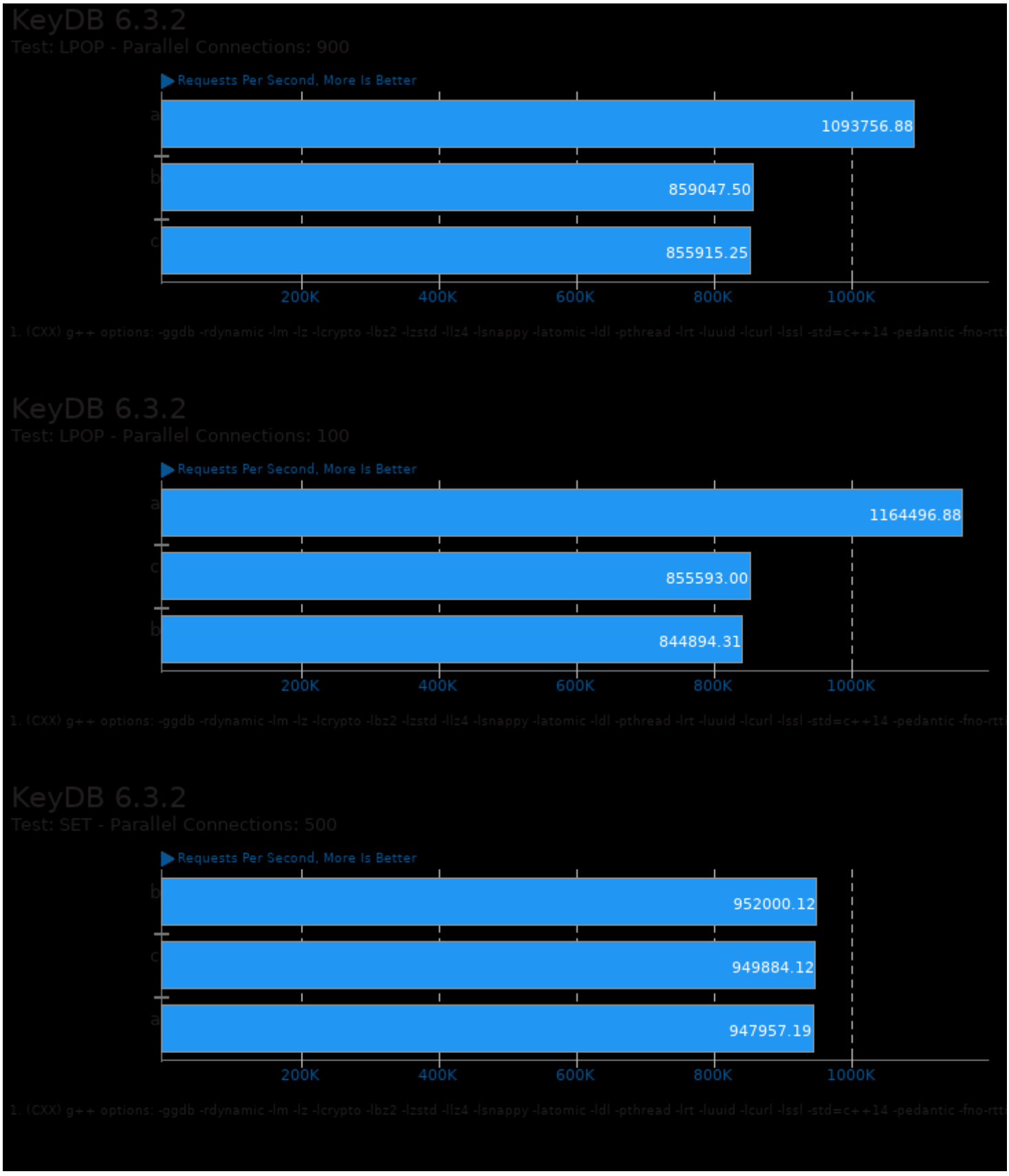

KeyDB 6.3.2
Test: HMSET - Parallel Connections: 900
Requests Per Second, More Is Better
a
c
b
334560.06
324928.50
316315.53
70K
140K
210K
280K
350K
1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lssl -std=c++14 -pedantic -fno-rtt
KeyDB 6.3.2
Test: HMSET - Parallel Connections: 500
Requests Per Second, More Is Better
a
c
b
339833.22
333226.69
331138.97
70K
140K
210K
280K
350K
1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lssl -std=c++14 -pedantic -fno-rtt
KeyDB 6.3.2
Test: HMSET - Parallel Connections: 100
Requests Per Second, More Is Better
a
b
c
351400.00
340381.50
333220.06
80K
160K
240K
320K
400K
1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lssl -std=c++14 -pedantic -fno-rtt

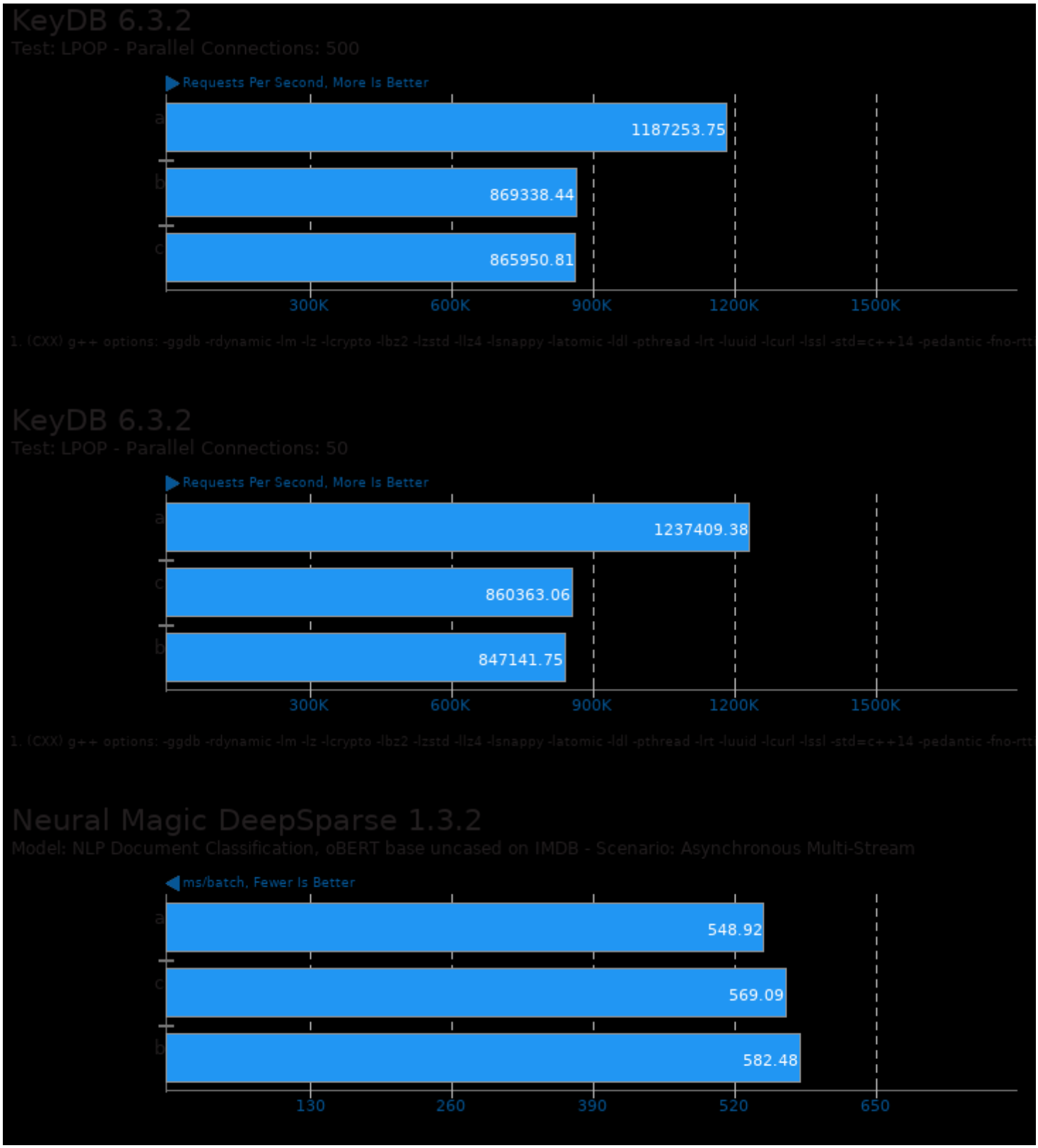
ds key


KeyDB 6.3.2
Test: HMSET - Parallel Connections: 50
Requests Per Second, More Is Better
a
555129.94
b
516972.19
c
429704.62
120K
240K
360K
480K
600K
1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lssl -std=c++14 -pedantic -fno-rtt
KeyDB 6.3.2
Test: LPUSH - Parallel Connections: 900
Requests Per Second, More Is Better
a
745145.38
b
727590.19
c
725636.75
160K
320K
480K
640K
800K
1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lssl -std=c++14 -pedantic -fno-rtt
KeyDB 6.3.2
Test: LPUSH - Parallel Connections: 500
Requests Per Second, More Is Better
b
800192.06
a
789390.56
c
785015.62
200K
400K
600K
800K
1000K
1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lssl -std=c++14 -pedantic -fno-rtt


KeyDB 6.3.2
Test: LPUSH - Parallel Connections: 100
Requests Per Second, More Is Better
b
a
c
846181.19
835324.19
809887.12
200K
400K
600K
800K
1000K
1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lssl -std=c++14 -pedantic -fno-rtt
KeyDB 6.3.2
Test: SET - Parallel Connections: 900
Requests Per Second, More Is Better
a
b
c
887232.75
877762.75
876869.94
200K
400K
600K
800K
1000K
1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lssl -std=c++14 -pedantic -fno-rtt
KeyDB 6.3.2
Test: LPUSH - Parallel Connections: 50
Requests Per Second, More Is Better
b
a
c
878487.56
873560.81
873133.69
200K
400K
600K
800K
1000K
1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lssl -std=c++14 -pedantic -fno-rtt

ds key

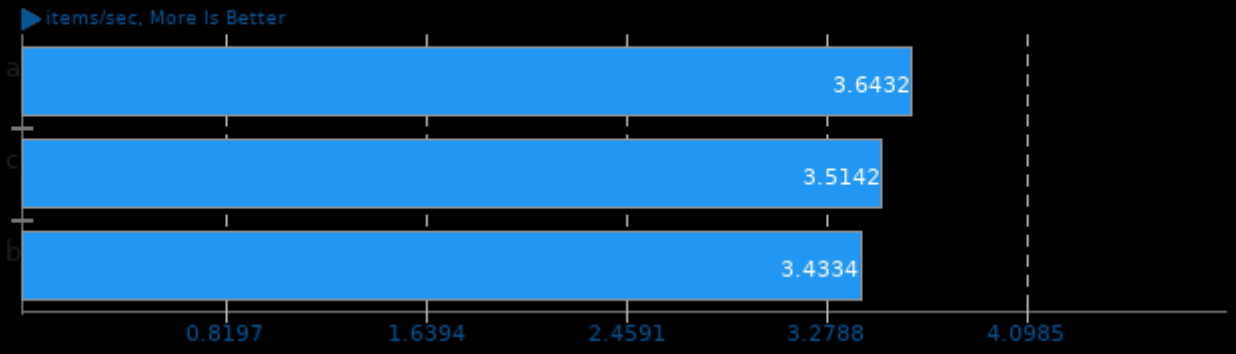

KeyDB 6.3.2
Test: LPOP - Parallel Connections: 900
Requests Per Second, More Is Better
a
1093756.88
b
859047.50
c
855915.25
200K
400K
600K
800K
1000K
1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lssl -std=c++14 -pedantic -fno-rtt
KeyDB 6.3.2
Test: LPOP - Parallel Connections: 100
Requests Per Second, More Is Better
a
1164496.88
c
855593.00
b
844894.31
200K
400K
600K
800K
1000K
1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lssl -std=c++14 -pedantic -fno-rtt
KeyDB 6.3.2
Test: SET - Parallel Connections: 500
Requests Per Second, More Is Better
b
952000.12
c
949884.12
a
947957.19
200K
400K
600K
800K
1000K
1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lssl -std=c++14 -pedantic -fno-rtt


KeyDB 6.3.2
Test: LPOP - Parallel Connections: 500
Requests Per Second, More Is Better
a
1187253.75
b
869338.44
c
865950.81
300K
600K
900K
1200K
1500K
1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lssl -std=c++14 -pedantic -fno-rtti
KeyDB 6.3.2
Test: LPOP - Parallel Connections: 50
Requests Per Second, More Is Better
a
1237409.38
c
860363.06
b
847141.75
300K
600K
900K
1200K
1500K
1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lssl -std=c++14 -pedantic -fno-rtti
Neural Magic DeepSparse 1.3.2
Model: NLP Document Classification, oBERT base uncased on IMDB - Scenario: Asynchronous Multi-Stream
ms/batch, Fewer Is Better
a
548.92
c
569.09
b
582.48
130
260
390
520
650

ds key

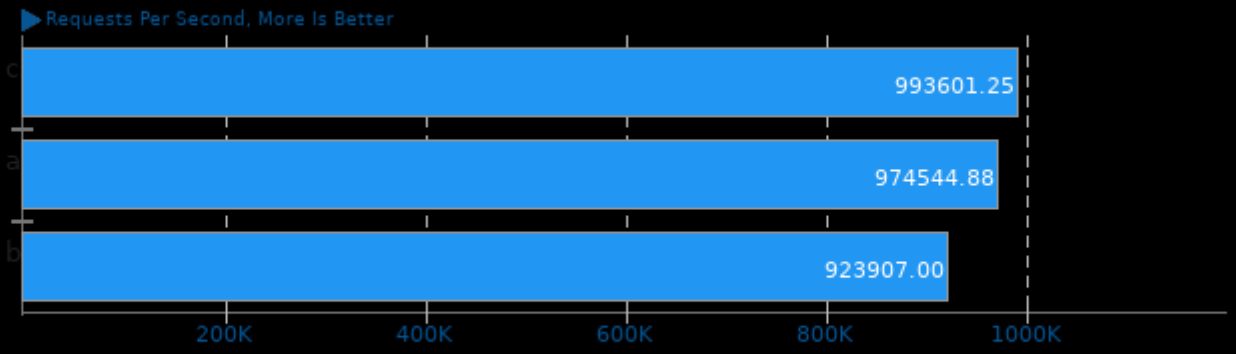
Neural Magic DeepSparse 1.3.2

Model: NLP Document Classification, oBERT base uncased on IMDB - Scenario: Asynchronous Multi-Stream



KeyDB 6.3.2

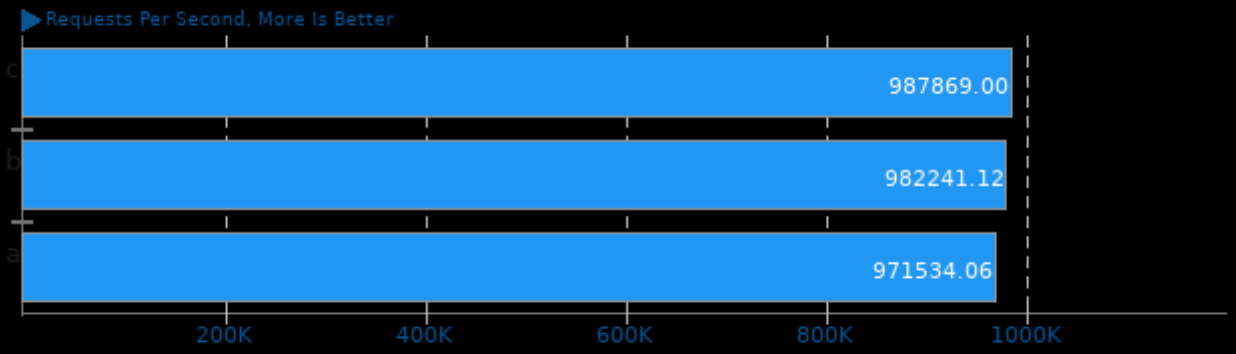
Test: SET - Parallel Connections: 100



1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lssl -std=c++14 -pedantic -fno-rtti

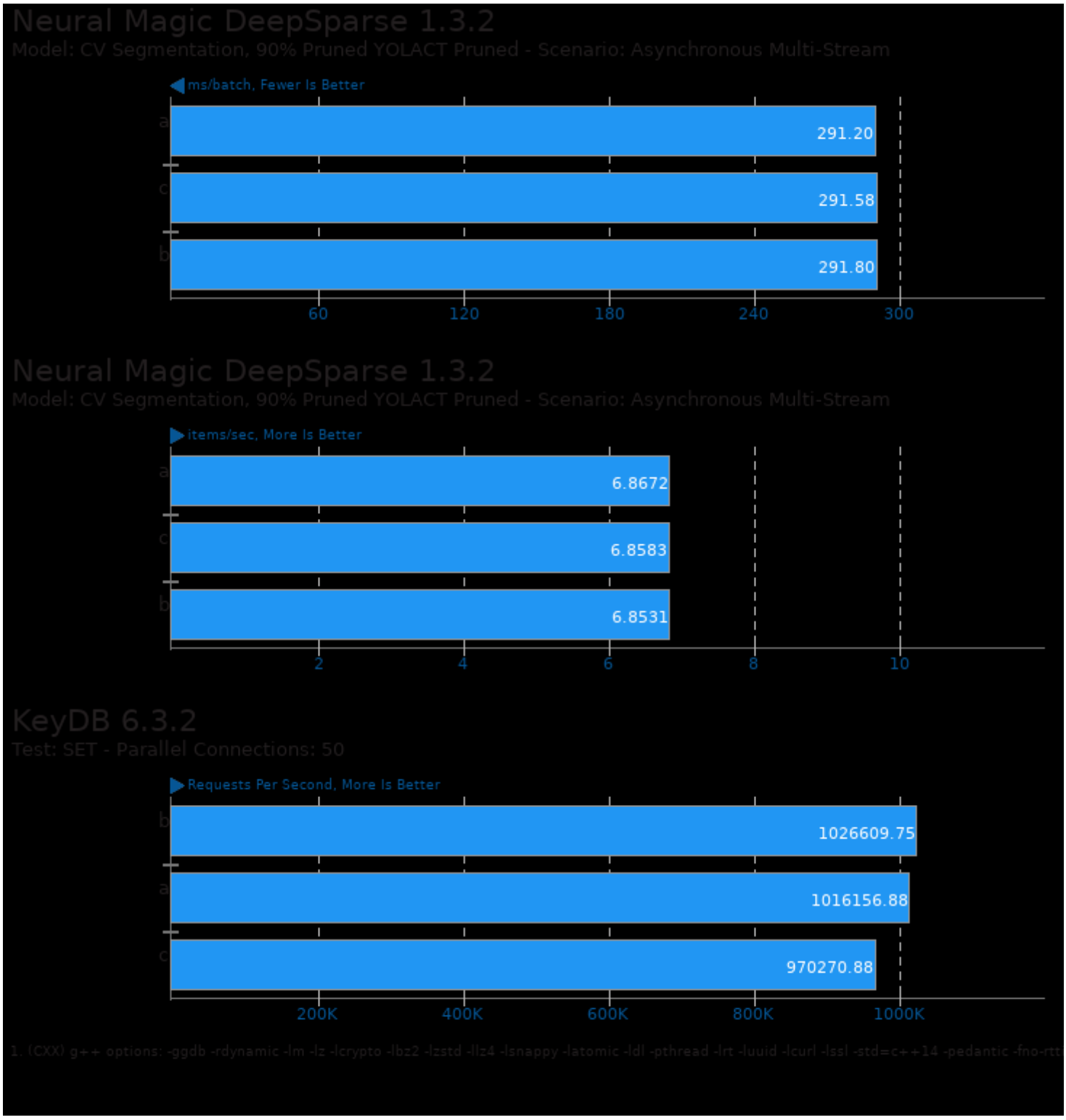
KeyDB 6.3.2

Test: SADD - Parallel Connections: 900

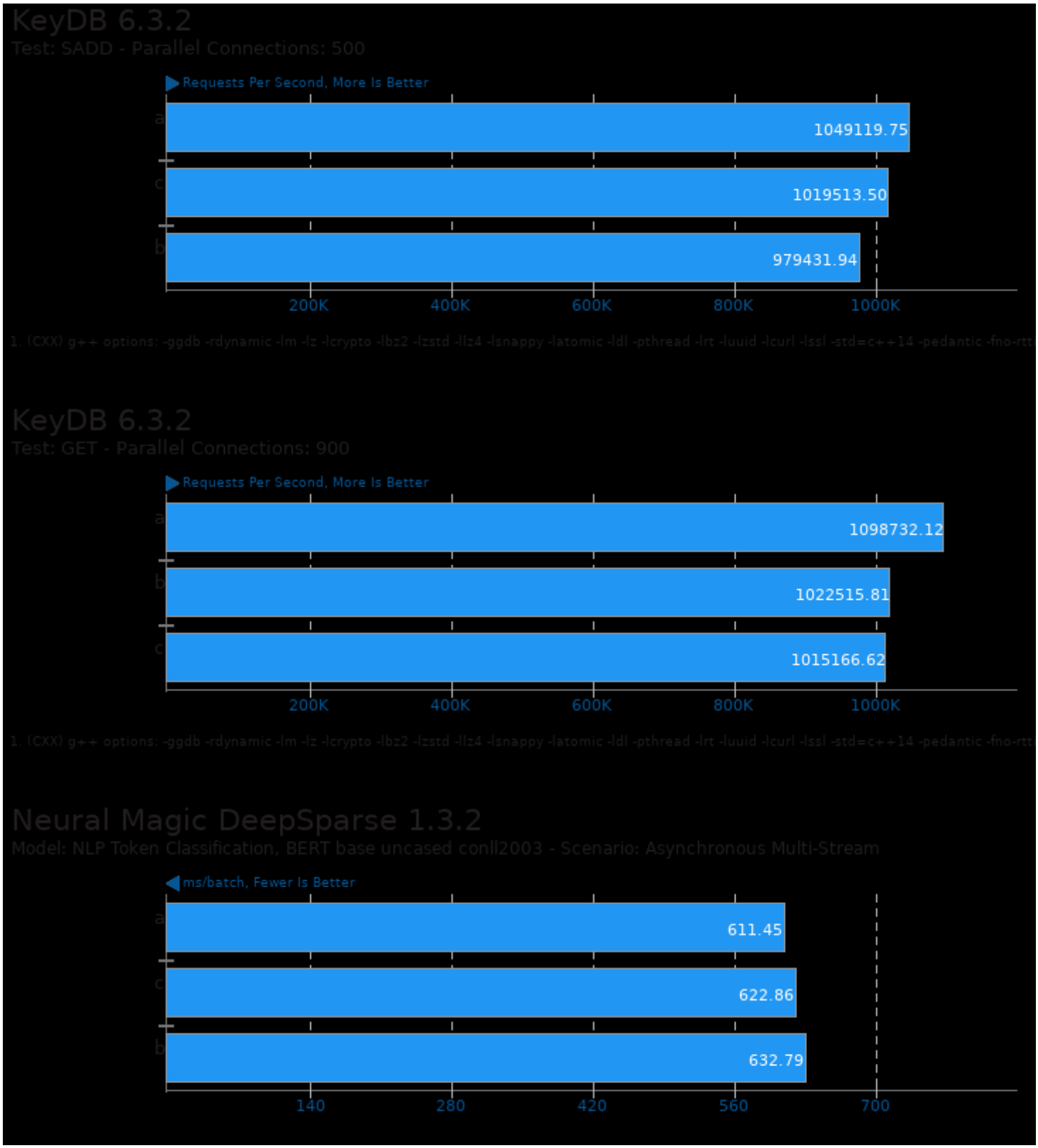


1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lssl -std=c++14 -pedantic -fno-rtti

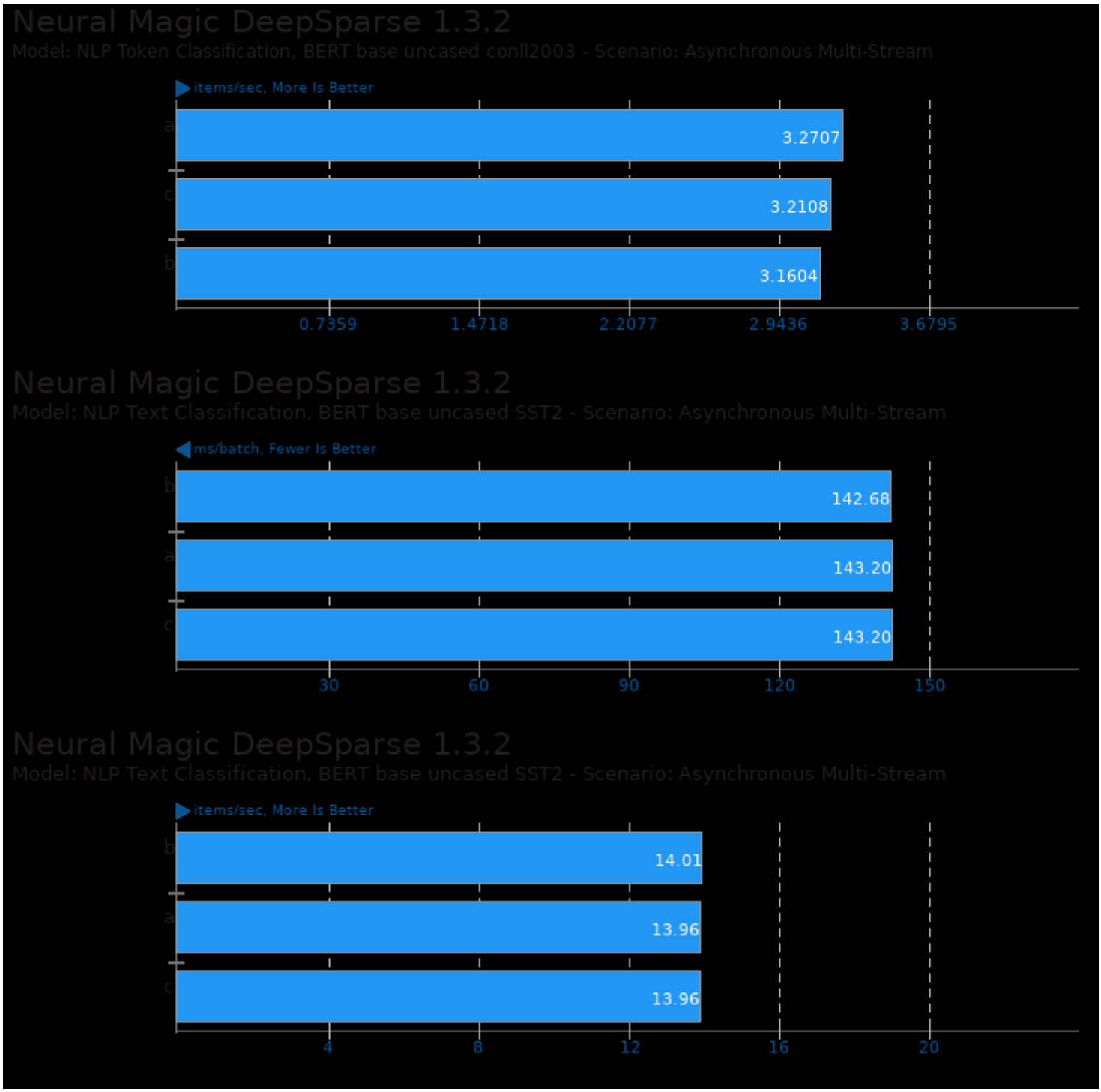
ds key


Neural Magic DeepSparse 1.3.2
Model: CV Segmentation, 90% Pruned YOLACT Pruned - Scenario: Asynchronous Multi-Stream
ms/batch, Fewer Is Better
291.20
291.58
291.80
60
120
180
240
300
Neural Magic DeepSparse 1.3.2
Model: CV Segmentation, 90% Pruned YOLACT Pruned - Scenario: Asynchronous Multi-Stream
items/sec, More Is Better
6.8672
6.8583
6.8531
2
4
6
8
10
KeyDB 6.3.2
Test: SET - Parallel Connections: 50
Requests Per Second, More Is Better
1026609.75
1016156.88
970270.88
200K
400K
600K
800K
1000K

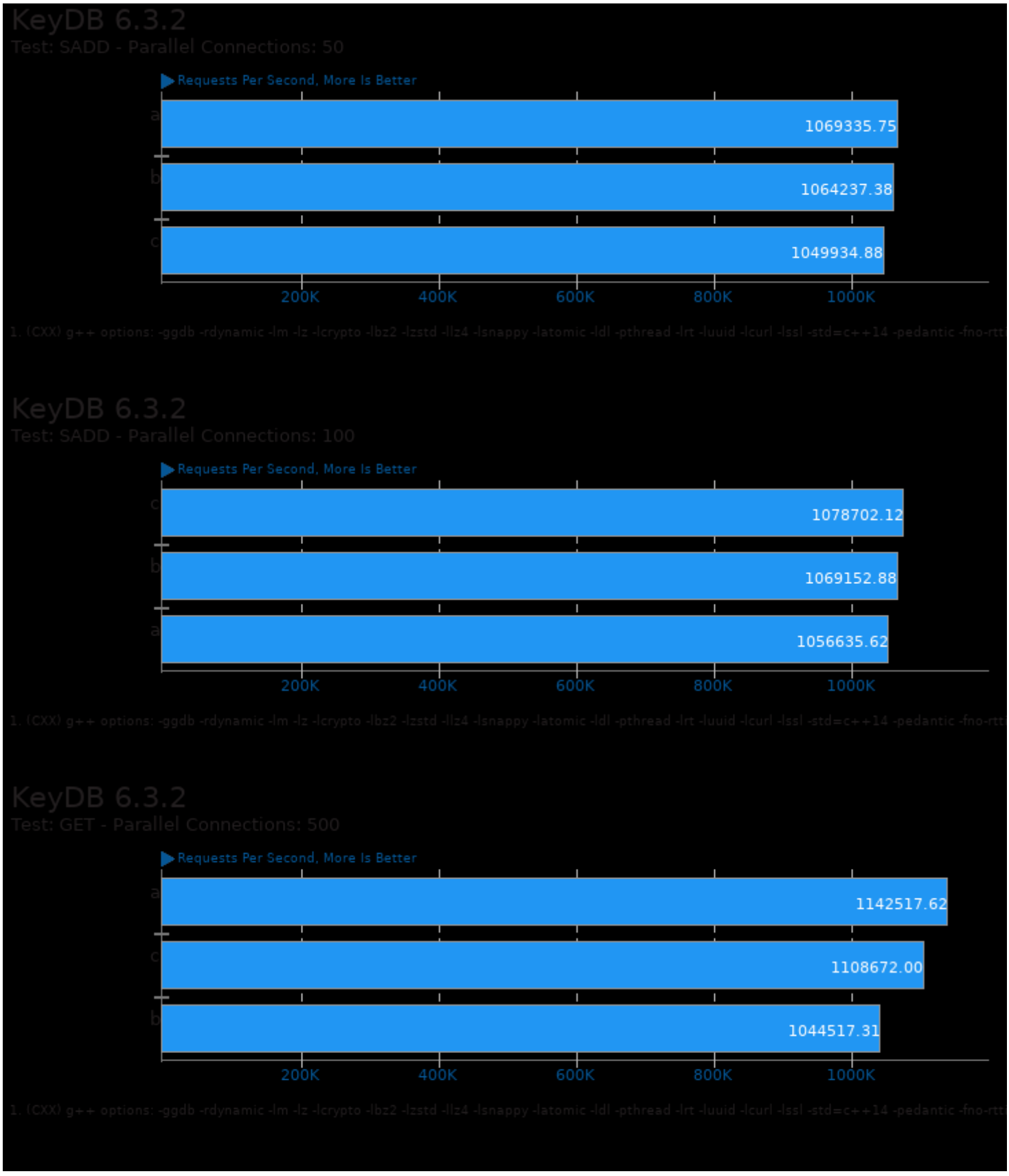
ds key


KeyDB 6.3.2
Test: SADD - Parallel Connections: 500
Requests Per Second, More Is Better
a
c
b
1049119.75
1019513.50
979431.94
200K
400K
600K
800K
1000K
1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lssl -std=c++14 -pedantic -fno-rtt
KeyDB 6.3.2
Test: GET - Parallel Connections: 900
Requests Per Second, More Is Better
a
b
c
1098732.12
1022515.81
1015166.62
200K
400K
600K
800K
1000K
1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lssl -std=c++14 -pedantic -fno-rtt
Neural Magic DeepSparse 1.3.2
Model: NLP Token Classification, BERT base uncased conll2003 - Scenario: Asynchronous Multi-Stream
ms/batch, Fewer Is Better
a
c
b
611.45
622.86
632.79
140
280
420
560
700

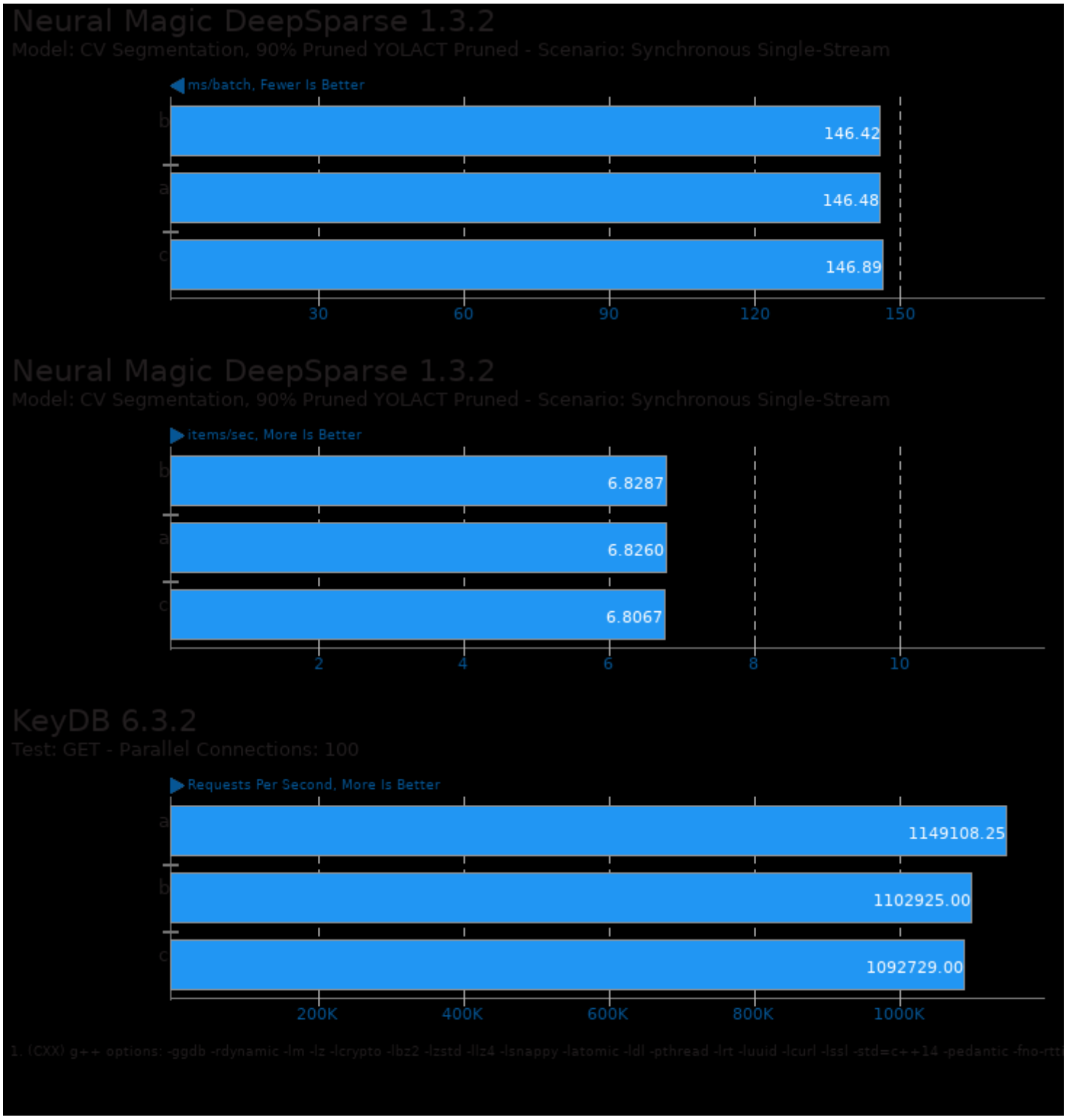
ds key


Neural Magic DeepSparse 1.3.2
Model: NLP Token Classification, BERT base uncased conll2003 - Scenario: Asynchronous Multi-Stream
items/sec, More Is Better
a
c
b
3.2707
3.2108
3.1604
0.7359
1.4718
2.2077
2.9436
3.6795
Neural Magic DeepSparse 1.3.2
Model: NLP Text Classification, BERT base uncased SST2 - Scenario: Asynchronous Multi-Stream
ms/batch, Fewer Is Better
b
a
c
142.68
143.20
143.20
30
60
90
120
150
Neural Magic DeepSparse 1.3.2
Model: NLP Text Classification, BERT base uncased SST2 - Scenario: Asynchronous Multi-Stream
items/sec, More Is Better
b
a
c
14.01
13.96
13.96
4
8
12
16
20

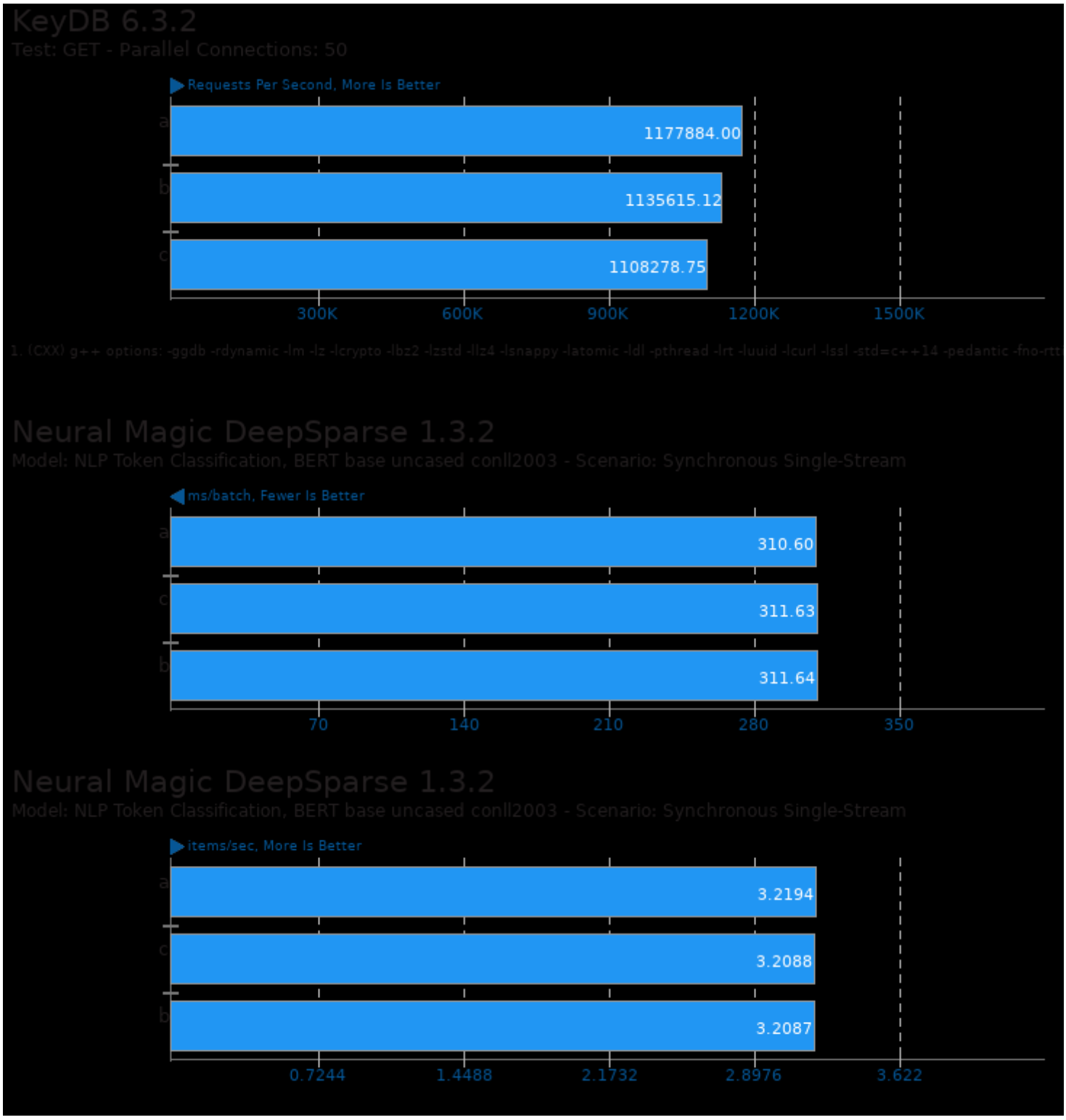
ds key


KeyDB 6.3.2
Test: SADD - Parallel Connections: 50
Requests Per Second, More Is Better
a
b
c
1069335.75
1064237.38
1049934.88
200K
400K
600K
800K
1000K
1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lssl -std=c++14 -pedantic -fno-rtt
KeyDB 6.3.2
Test: SADD - Parallel Connections: 100
Requests Per Second, More Is Better
c
b
a
1078702.12
1069152.88
1056635.62
200K
400K
600K
800K
1000K
1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lssl -std=c++14 -pedantic -fno-rtt
KeyDB 6.3.2
Test: GET - Parallel Connections: 500
Requests Per Second, More Is Better
a
c
b
1142517.62
1108672.00
1044517.31
200K
400K
600K
800K
1000K
1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lssl -std=c++14 -pedantic -fno-rtt

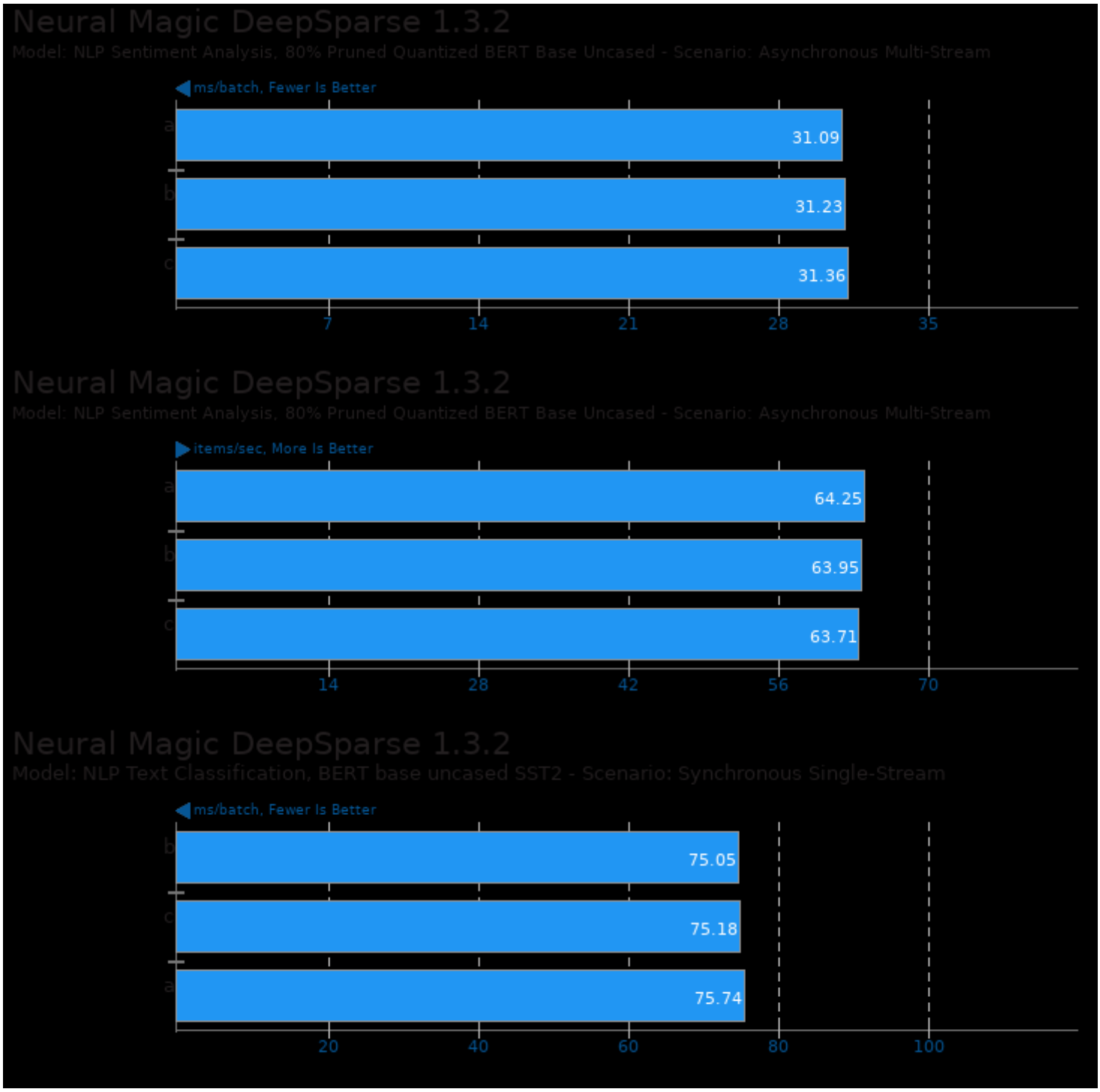
ds key


Neural Magic DeepSparse 1.3.2
Model: CV Segmentation, 90% Pruned YOLACT Pruned - Scenario: Synchronous Single-Stream
ms/batch, Fewer Is Better
b
a
c
146.42
146.48
146.89
30
60
90
120
150
Neural Magic DeepSparse 1.3.2
Model: CV Segmentation, 90% Pruned YOLACT Pruned - Scenario: Synchronous Single-Stream
items/sec, More Is Better
b
a
c
6.8287
6.8260
6.8067
2
4
6
8
10
KeyDB 6.3.2
Test: GET - Parallel Connections: 100
Requests Per Second, More Is Better
a
b
c
1149108.25
1102925.00
1092729.00
200K
400K
600K
800K
1000K
1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lssl -std=c++14 -pedantic -fno-rtti

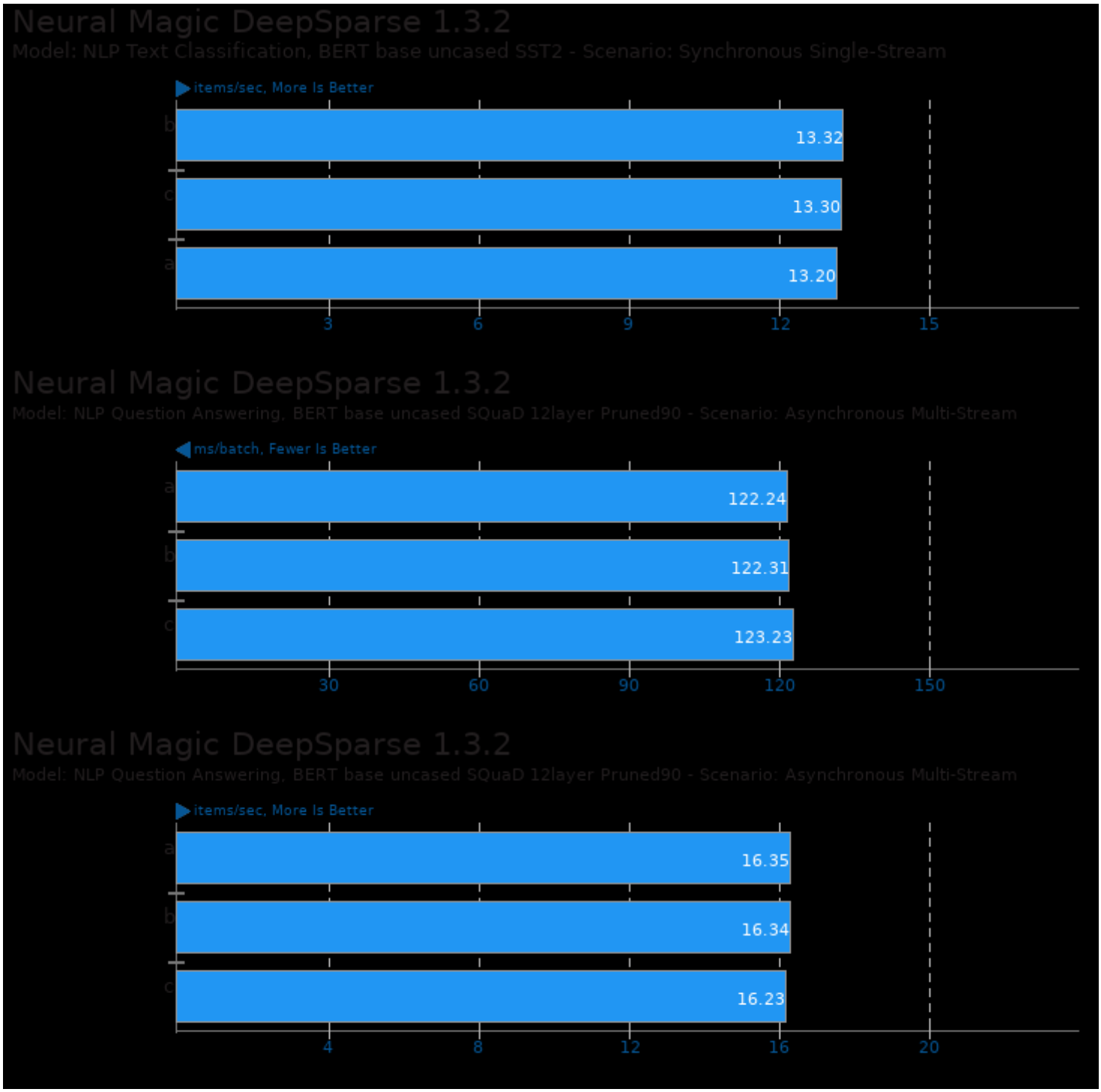
ds key


KeyDB 6.3.2
Test: GET - Parallel Connections: 50
Requests Per Second, More Is Better
a
1177884.00
b
1135615.12
c
1108278.75
300K
600K
900K
1200K
1500K
1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lssl -std=c++14 -pedantic -fno-rtti
Neural Magic DeepSparse 1.3.2
Model: NLP Token Classification, BERT base uncased conll2003 - Scenario: Synchronous Single-Stream
ms/batch, Fewer Is Better
a
310.60
c
311.63
b
311.64
70
140
210
280
350
Neural Magic DeepSparse 1.3.2
Model: NLP Token Classification, BERT base uncased conll2003 - Scenario: Synchronous Single-Stream
items/sec, More Is Better
a
3.2194
c
3.2088
b
3.2087
0.7244
1.4488
2.1732
2.8976
3.622

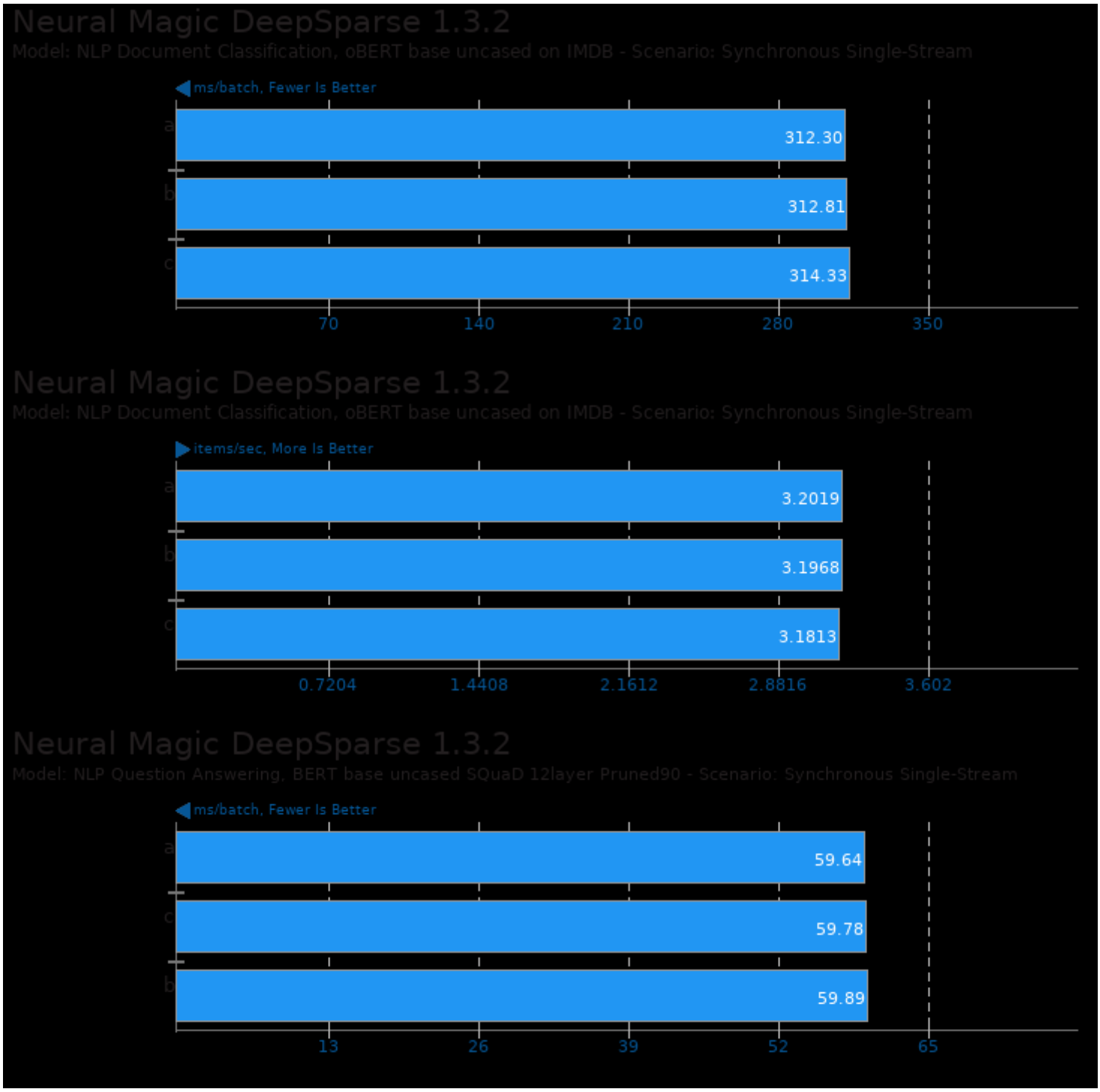
ds key


Neural Magic DeepSparse 1.3.2
Model: NLP Sentiment Analysis, 80% Pruned Quantized BERT Base Uncased - Scenario: Asynchronous Multi-Stream
ms/batch, Fewer Is Better
a
b
c
31.09
31.23
31.36
7
14
21
28
35
Neural Magic DeepSparse 1.3.2
Model: NLP Sentiment Analysis, 80% Pruned Quantized BERT Base Uncased - Scenario: Asynchronous Multi-Stream
items/sec, More Is Better
a
b
c
64.25
63.95
63.71
14
28
42
56
70
Neural Magic DeepSparse 1.3.2
Model: NLP Text Classification, BERT base uncased SST2 - Scenario: Synchronous Single-Stream
ms/batch, Fewer Is Better
b
c
a
75.05
75.18
75.74
20
40
60
80
100

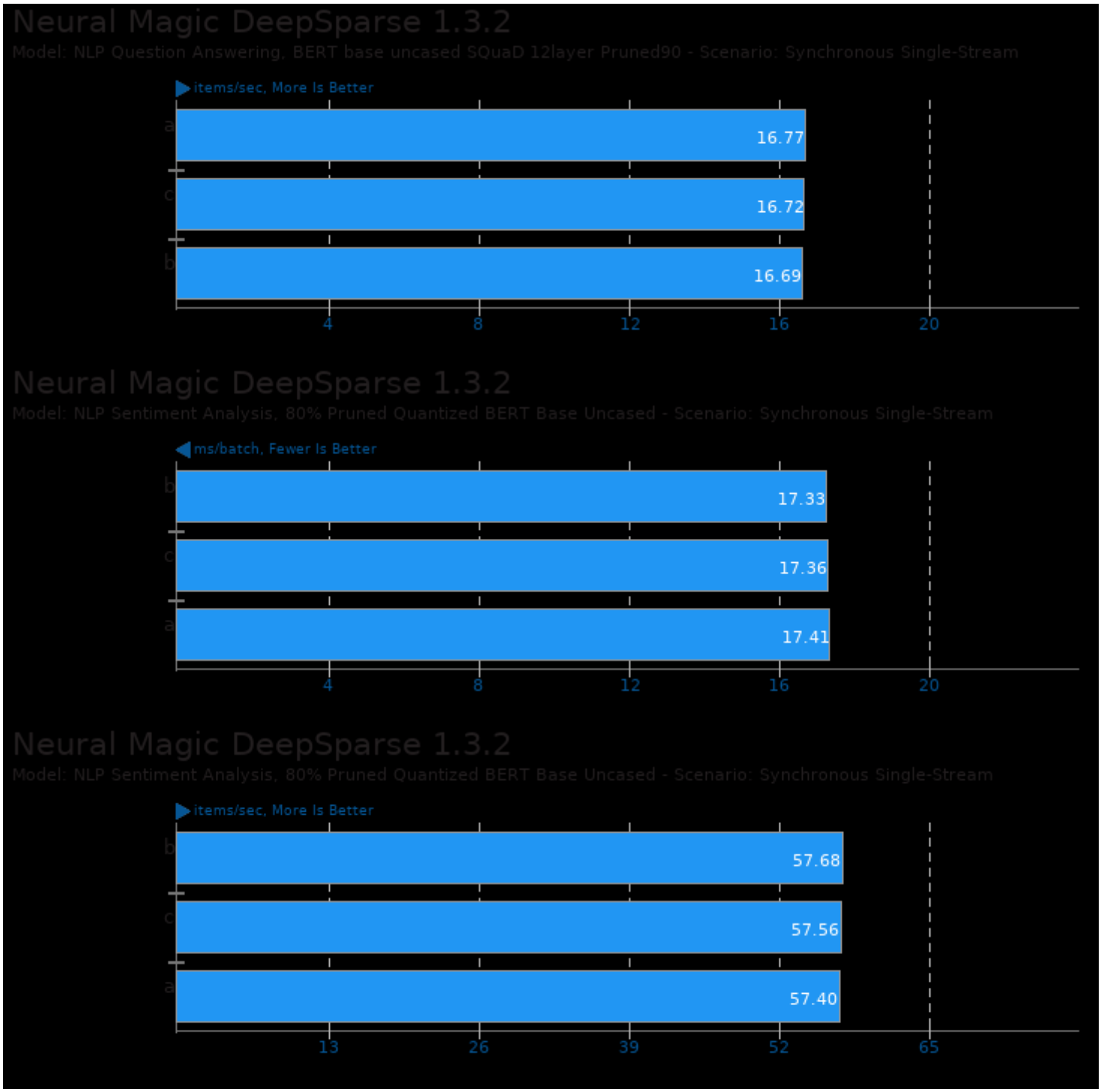
ds key


Neural Magic DeepSparse 1.3.2
Model: NLP Text Classification, BERT base uncased SST2 - Scenario: Synchronous Single-Stream
items/sec, More Is Better
b
c
a
13.32
13.30
13.20
3
6
9
12
15
Neural Magic DeepSparse 1.3.2
Model: NLP Question Answering, BERT base uncased SQuaD 12layer Pruned90 - Scenario: Asynchronous Multi-Stream
ms/batch, Fewer Is Better
a
b
c
122.24
122.31
123.23
30
60
90
120
150
Neural Magic DeepSparse 1.3.2
Model: NLP Question Answering, BERT base uncased SQuaD 12layer Pruned90 - Scenario: Asynchronous Multi-Stream
items/sec, More Is Better
a
b
c
16.35
16.34
16.23
4
8
12
16
20

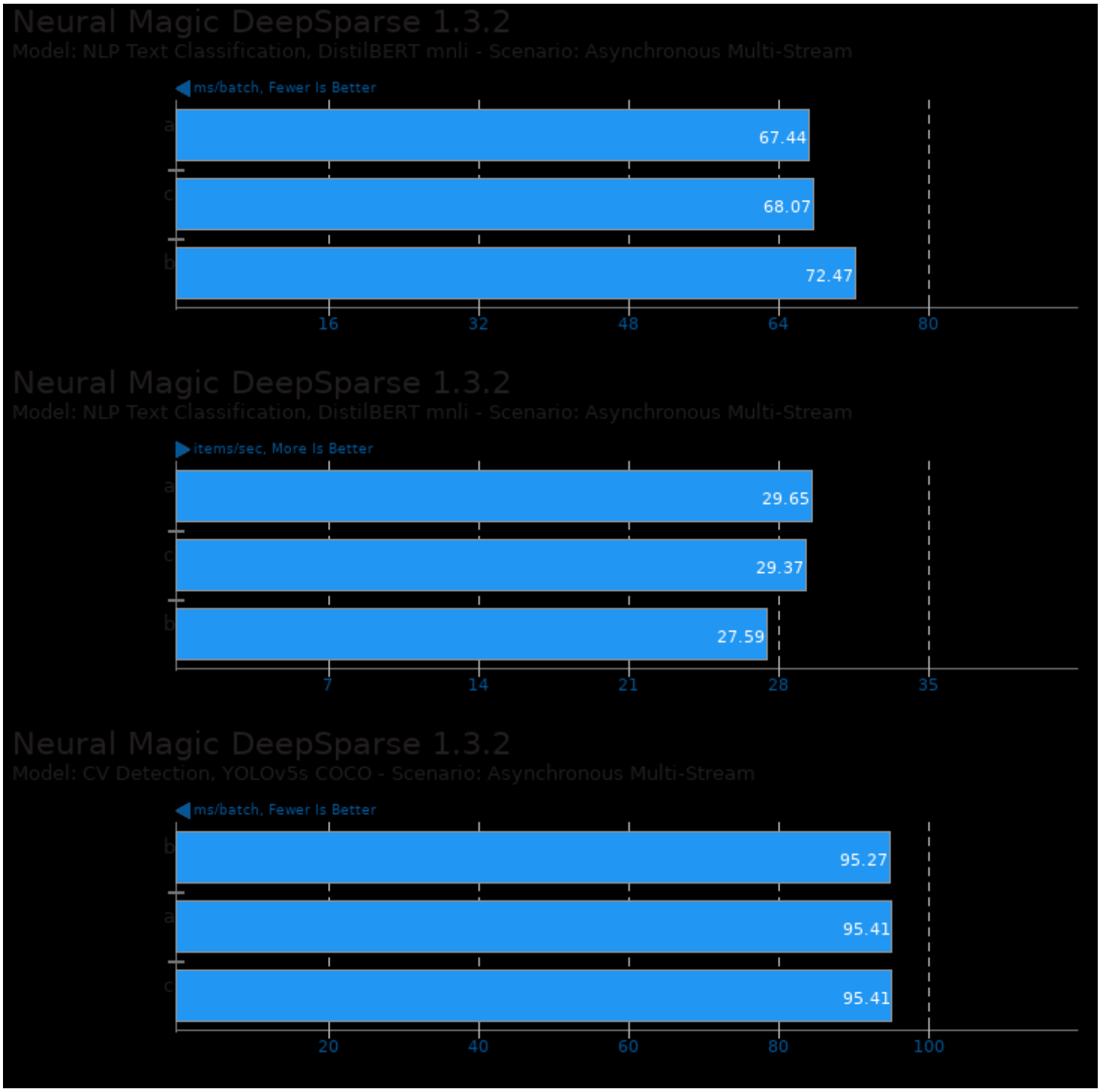
ds key


Neural Magic DeepSparse 1.3.2
Model: NLP Document Classification, oBERT base uncased on IMDB - Scenario: Synchronous Single-Stream
ms/batch, Fewer Is Better
a
b
c
312.30
312.81
314.33
70
140
210
280
350
Neural Magic DeepSparse 1.3.2
Model: NLP Document Classification, oBERT base uncased on IMDB - Scenario: Synchronous Single-Stream
items/sec, More Is Better
a
b
c
3.2019
3.1968
3.1813
0.7204
1.4408
2.1612
2.8816
3.602
Neural Magic DeepSparse 1.3.2
Model: NLP Question Answering, BERT base uncased SQuaD 12layer Pruned90 - Scenario: Synchronous Single-Stream
ms/batch, Fewer Is Better
a
c
b
59.64
59.78
59.89
13
26
39
52
65

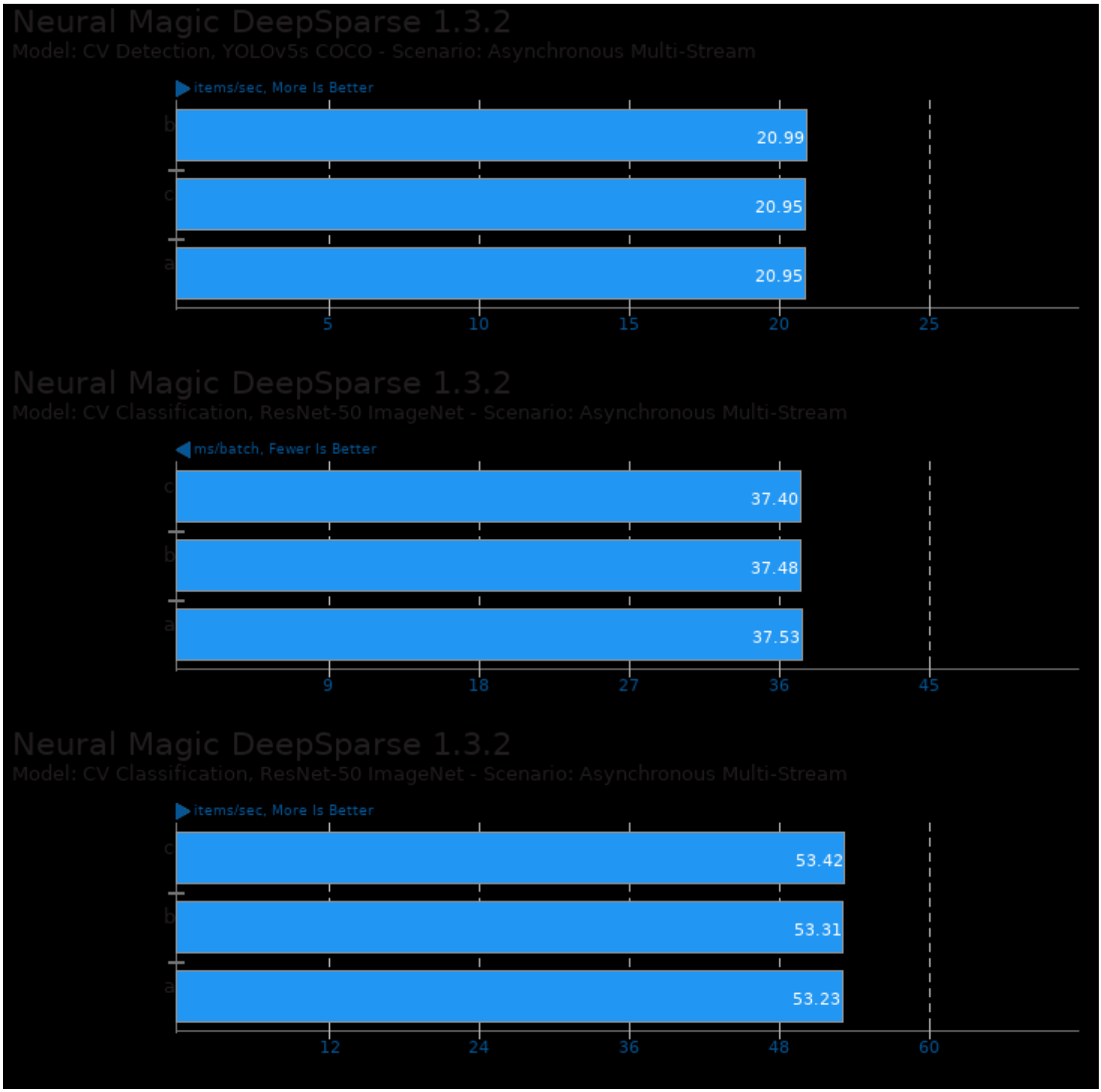
ds key


Neural Magic DeepSparse 1.3.2
Model: NLP Question Answering, BERT base uncased SQuaD 12layer Pruned90 - Scenario: Synchronous Single-Stream
items/sec, More Is Better
a
16.77
c
16.72
b
16.69
4
8
12
16
20
Neural Magic DeepSparse 1.3.2
Model: NLP Sentiment Analysis, 80% Pruned Quantized BERT Base Uncased - Scenario: Synchronous Single-Stream
ms/batch, Fewer Is Better
b
17.33
c
17.36
a
17.41
4
8
12
16
20
Neural Magic DeepSparse 1.3.2
Model: NLP Sentiment Analysis, 80% Pruned Quantized BERT Base Uncased - Scenario: Synchronous Single-Stream
items/sec, More Is Better
b
57.68
c
57.56
a
57.40
13
26
39
52
65

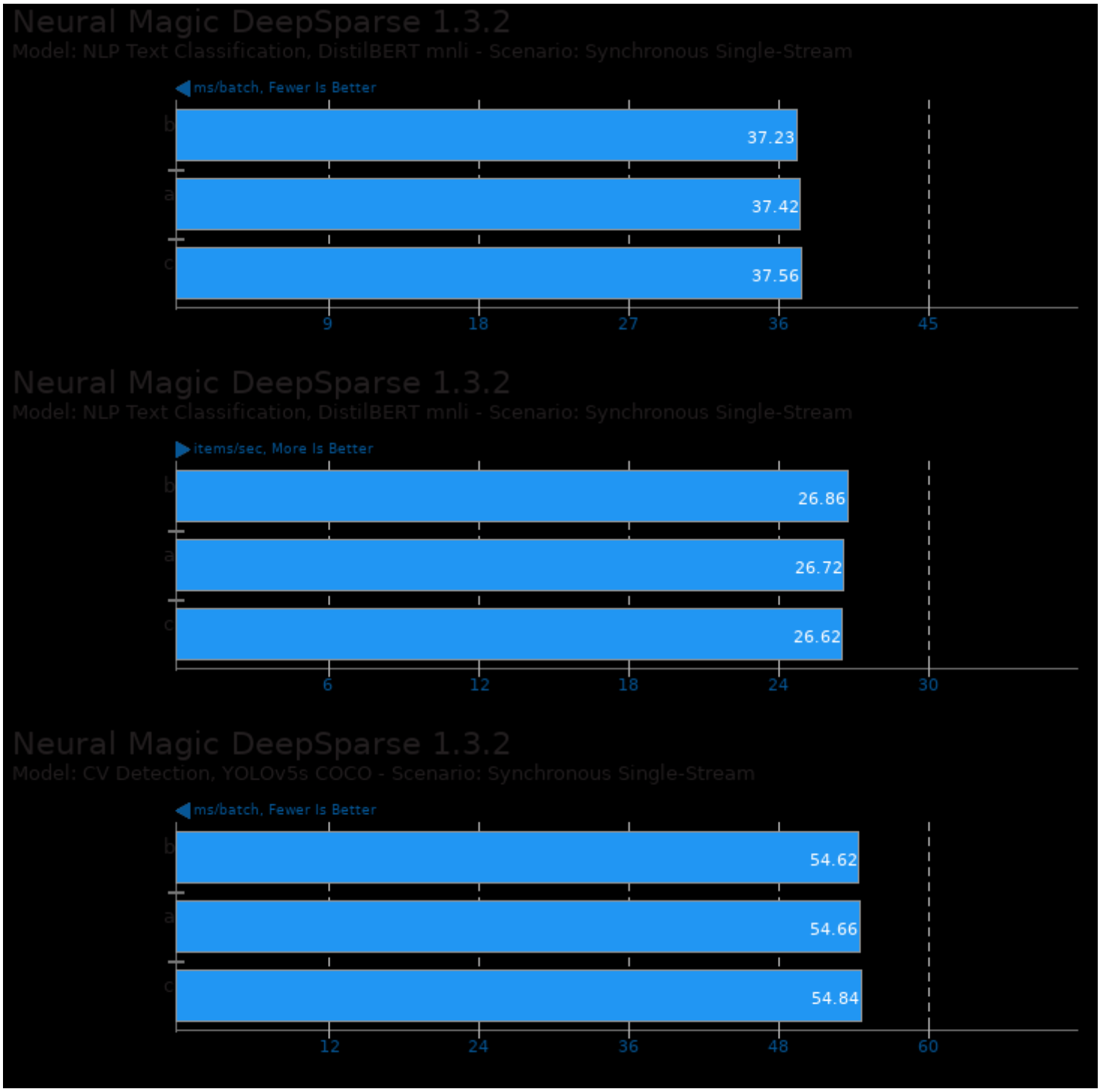
ds key

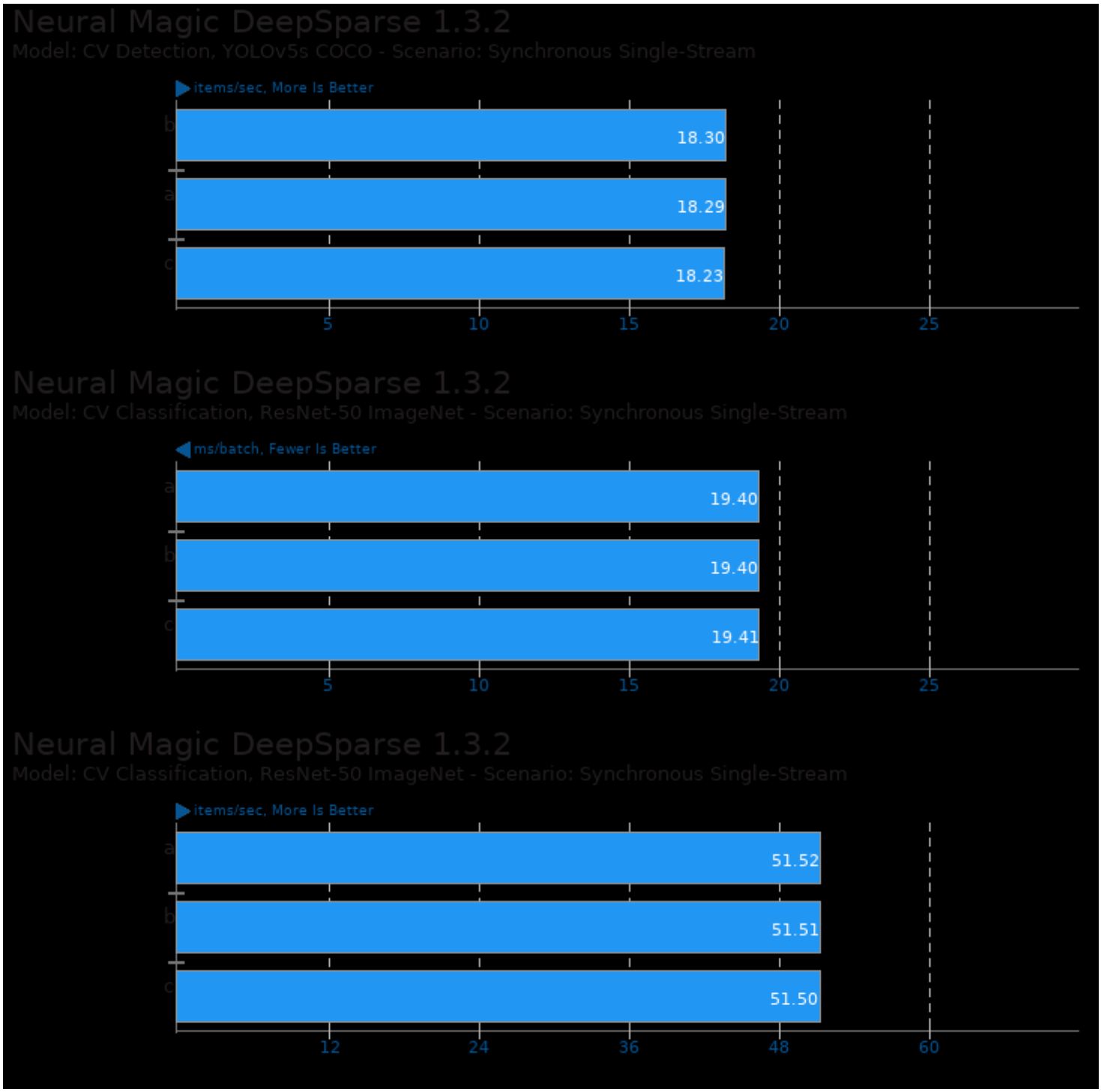

Neural Magic DeepSparse 1.3.2
Model: NLP Text Classification, DistilBERT mnli - Scenario: Asynchronous Multi-Stream
ms/batch, Fewer Is Better
a
c
b
67.44
68.07
72.47
16
32
48
64
80
Neural Magic DeepSparse 1.3.2
Model: NLP Text Classification, DistilBERT mnli - Scenario: Asynchronous Multi-Stream
items/sec, More Is Better
a
c
b
29.65
29.37
27.59
7
14
21
28
35
Neural Magic DeepSparse 1.3.2
Model: CV Detection, YOLOv5s COCO - Scenario: Asynchronous Multi-Stream
ms/batch, Fewer Is Better
b
a
c
95.27
95.41
95.41
20
40
60
80
100

ds key


Neural Magic DeepSparse 1.3.2
Model: CV Detection, YOLOv5s COCO - Scenario: Asynchronous Multi-Stream
items/sec, More Is Better
20.99
20.95
20.95
5
10
15
20
25
Neural Magic DeepSparse 1.3.2
Model: CV Classification, ResNet-50 ImageNet - Scenario: Asynchronous Multi-Stream
ms/batch, Fewer Is Better
37.40
37.48
37.53
9
18
27
36
45
Neural Magic DeepSparse 1.3.2
Model: CV Classification, ResNet-50 ImageNet - Scenario: Asynchronous Multi-Stream
items/sec, More Is Better
53.42
53.31
53.23
12
24
36
48
60

ds key


Neural Magic DeepSparse 1.3.2
Model: NLP Text Classification, DistilBERT mnli - Scenario: Synchronous Single-Stream
ms/batch, Fewer Is Better
37.23
37.42
37.56
9
18
27
36
45
Neural Magic DeepSparse 1.3.2
Model: NLP Text Classification, DistilBERT mnli - Scenario: Synchronous Single-Stream
items/sec, More Is Better
26.86
26.72
26.62
6
12
18
24
30
Neural Magic DeepSparse 1.3.2
Model: CV Detection, YOLOv5s COCO - Scenario: Synchronous Single-Stream
ms/batch, Fewer Is Better
54.62
54.66
54.84
12
24
36
48
60



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