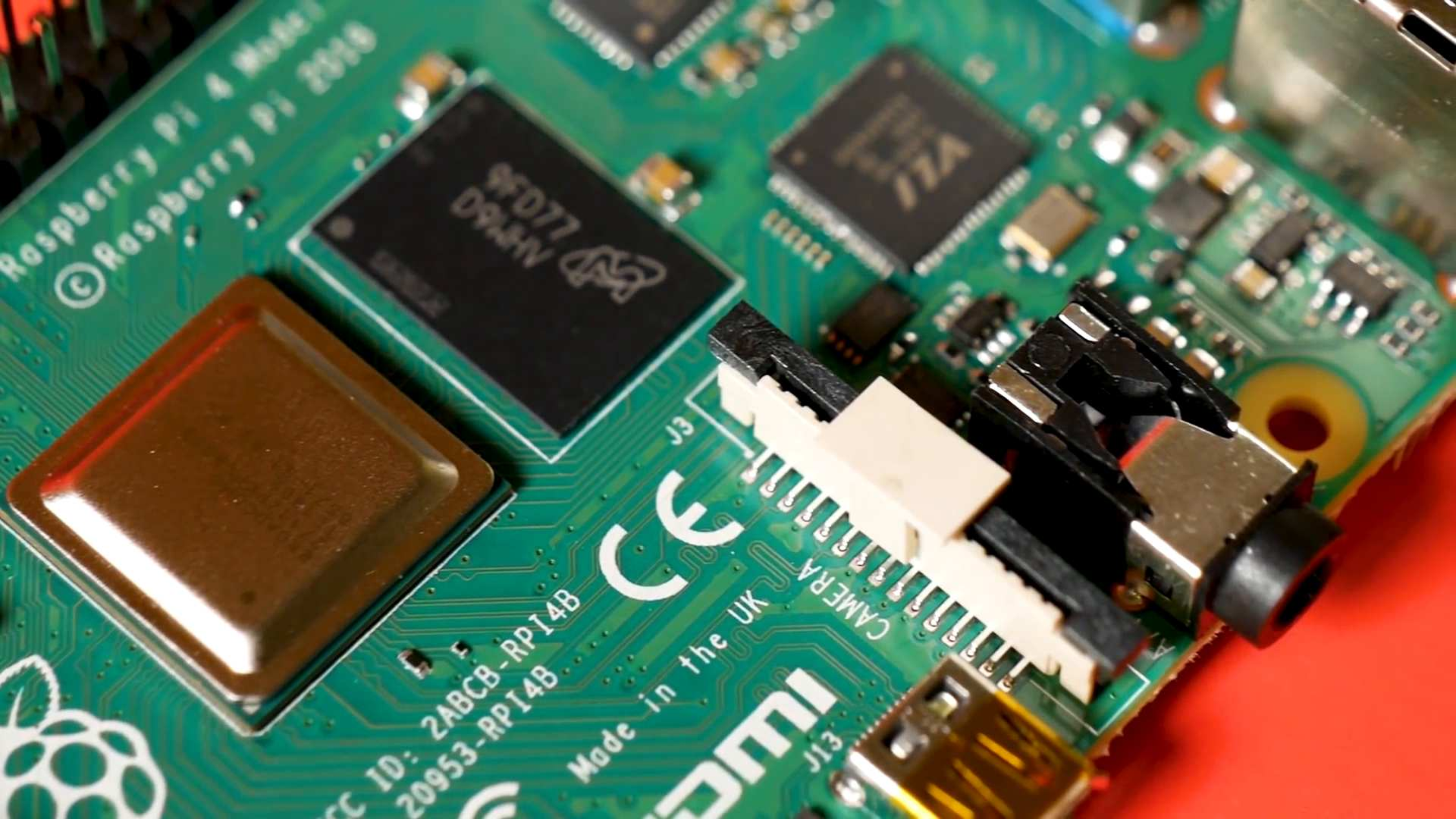
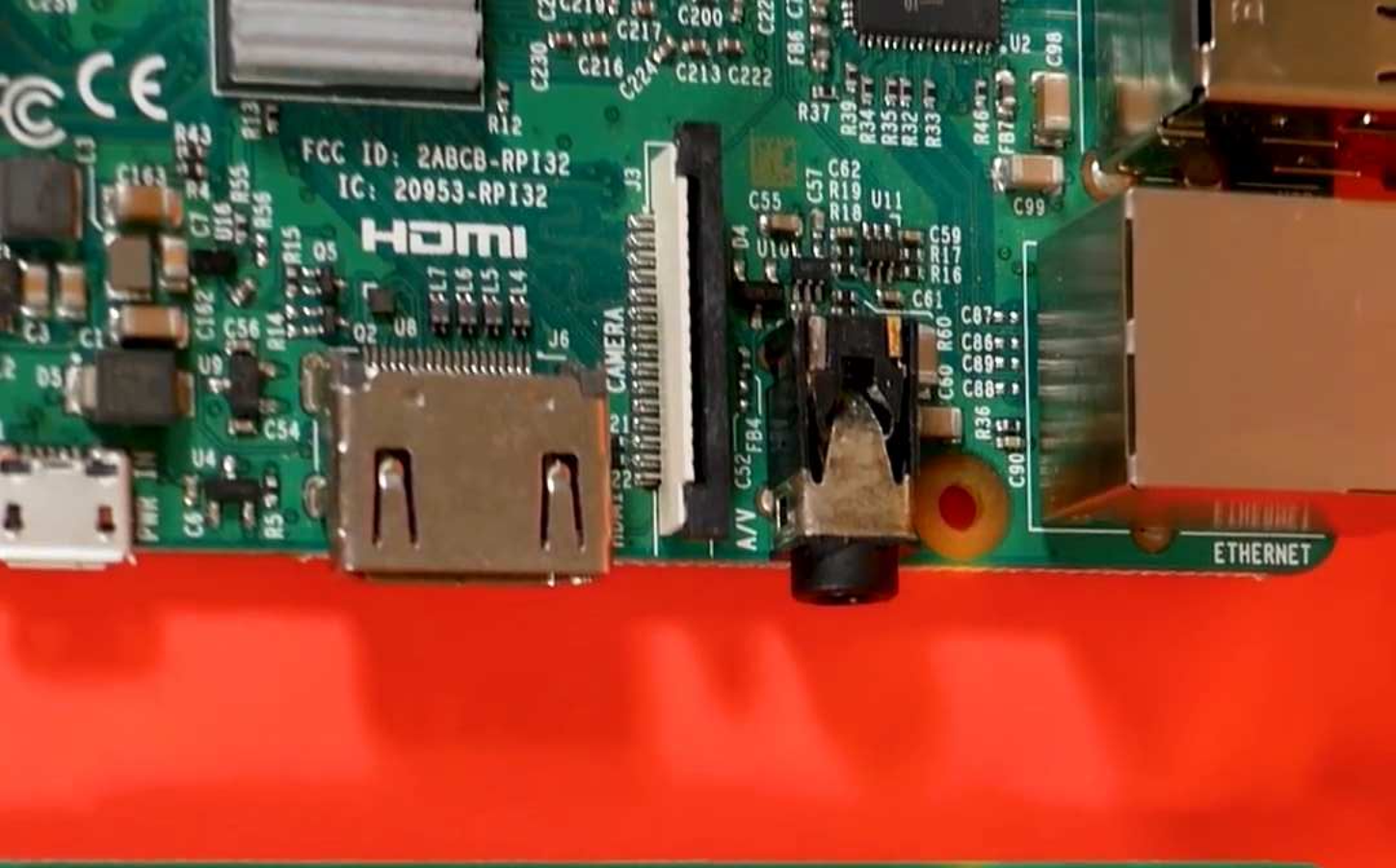
WORK
HARD


Raspberry Pi 4 Model
©Raspberry Pi 2019
J3
CAMERA
J13
Made in the UK
2ABCB-RPI4B
20953-RPI4B


FCC ID: 2ABCB-RPI32
IC: 20953-RPI32
HDMI
CAMERA
A/V
ETHERNET

GPIO
Raspberry Pi 3 Model B+
© Raspberry Pi 2017
PEN
RUN
DISPLAY
HDMI
CAMERA
A/V
J1 PWR IN
USB
USB

GPIO
Raspberry Pi 4 Model B
© Raspberry Pi 2018
ETHERNET
PoE

WORK
HARD

WORK
HARD

WORK
HARD

WORK
HARD

WORK
HARD

WORK
HARD

WORK
HARD

WORK
HARD

WORK
HARD

WORK
HARD

Phoronix Test Suite - Linux Test

https://www.phoronix-test-suite.com

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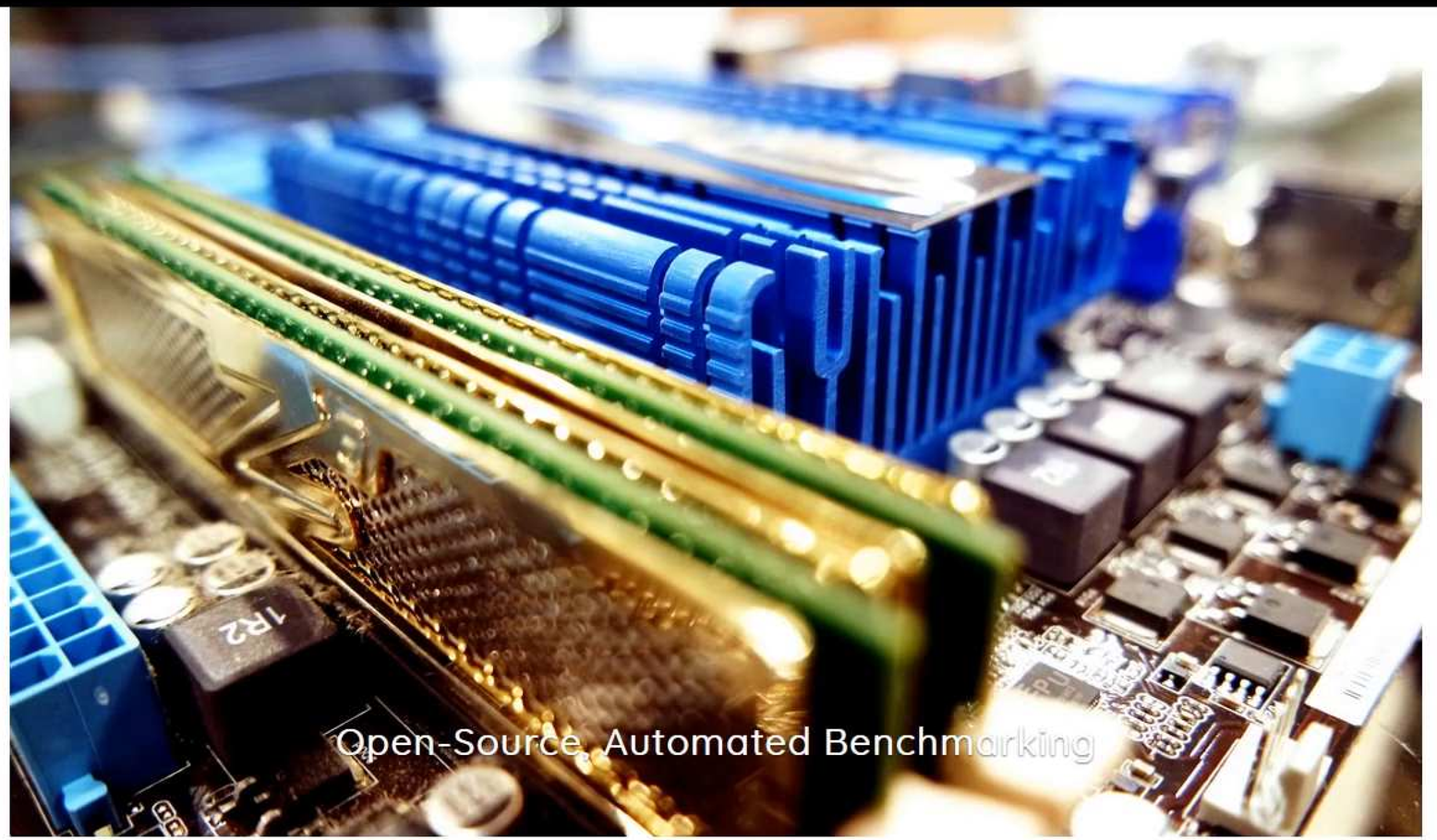


Easy To Use

The Phoronix Test Suite makes the process of carrying out

Extensible Architecture

The Phoronix Test Suite has

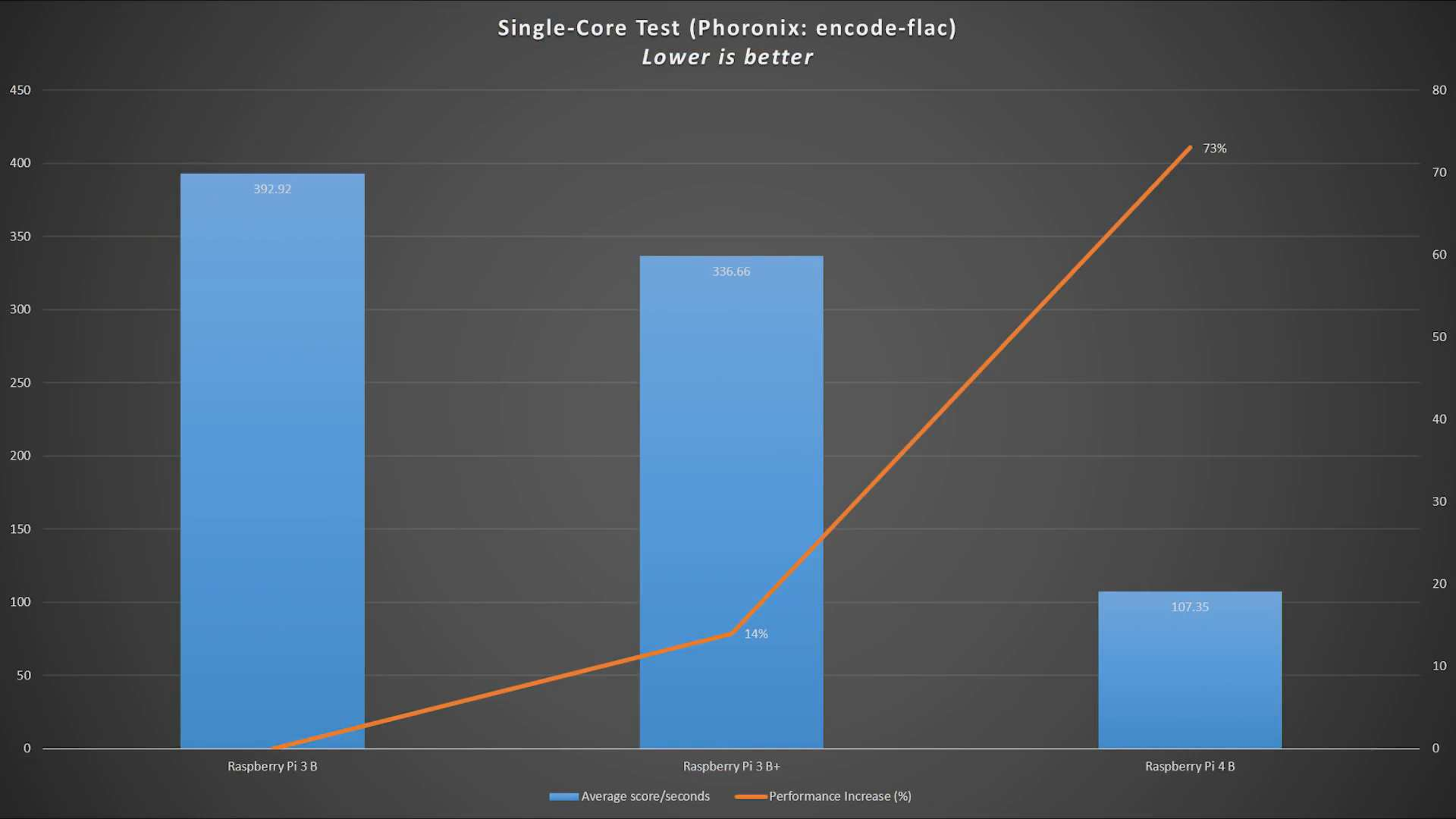
Support & Custom Engineering

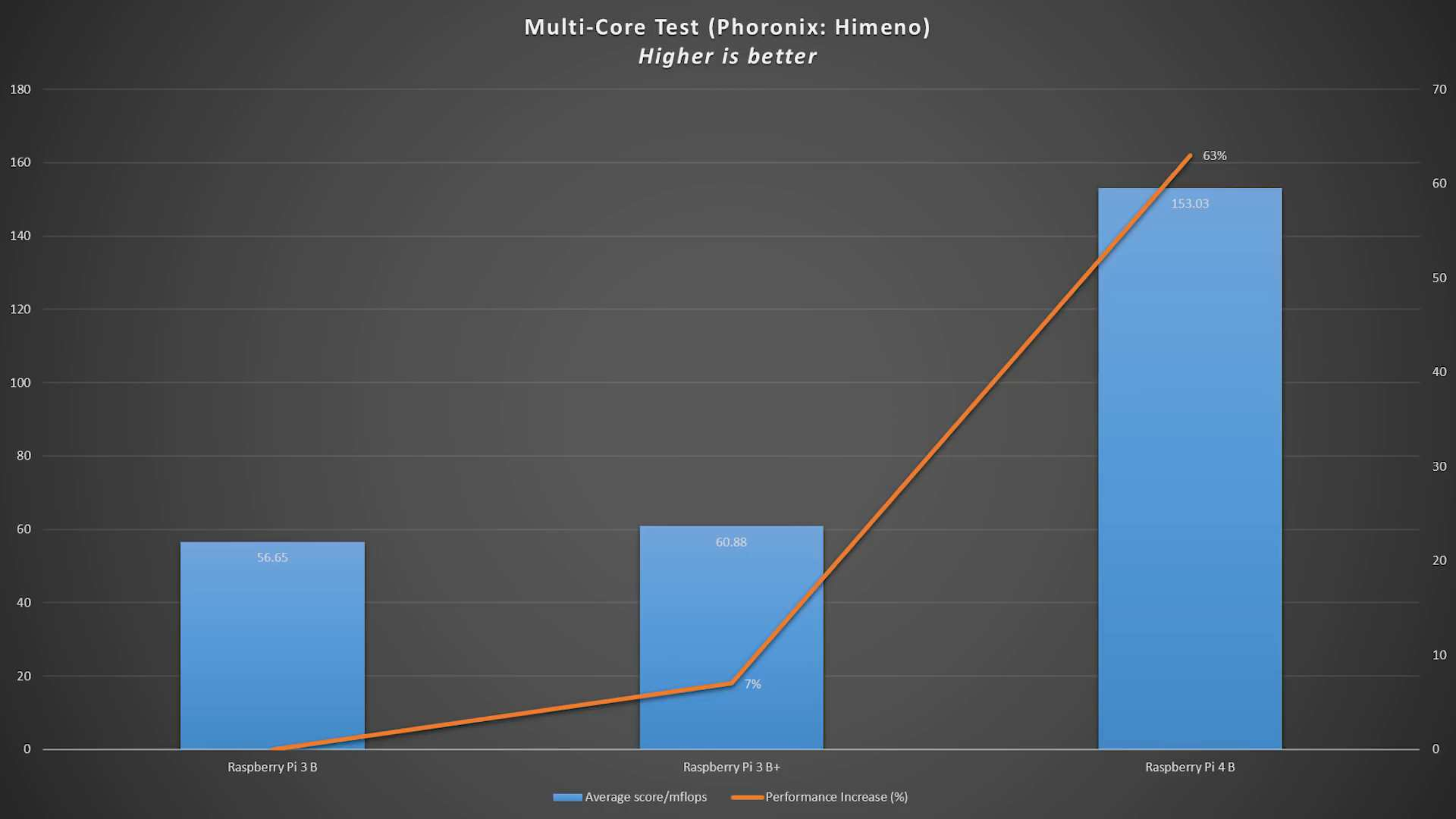
Result Recording

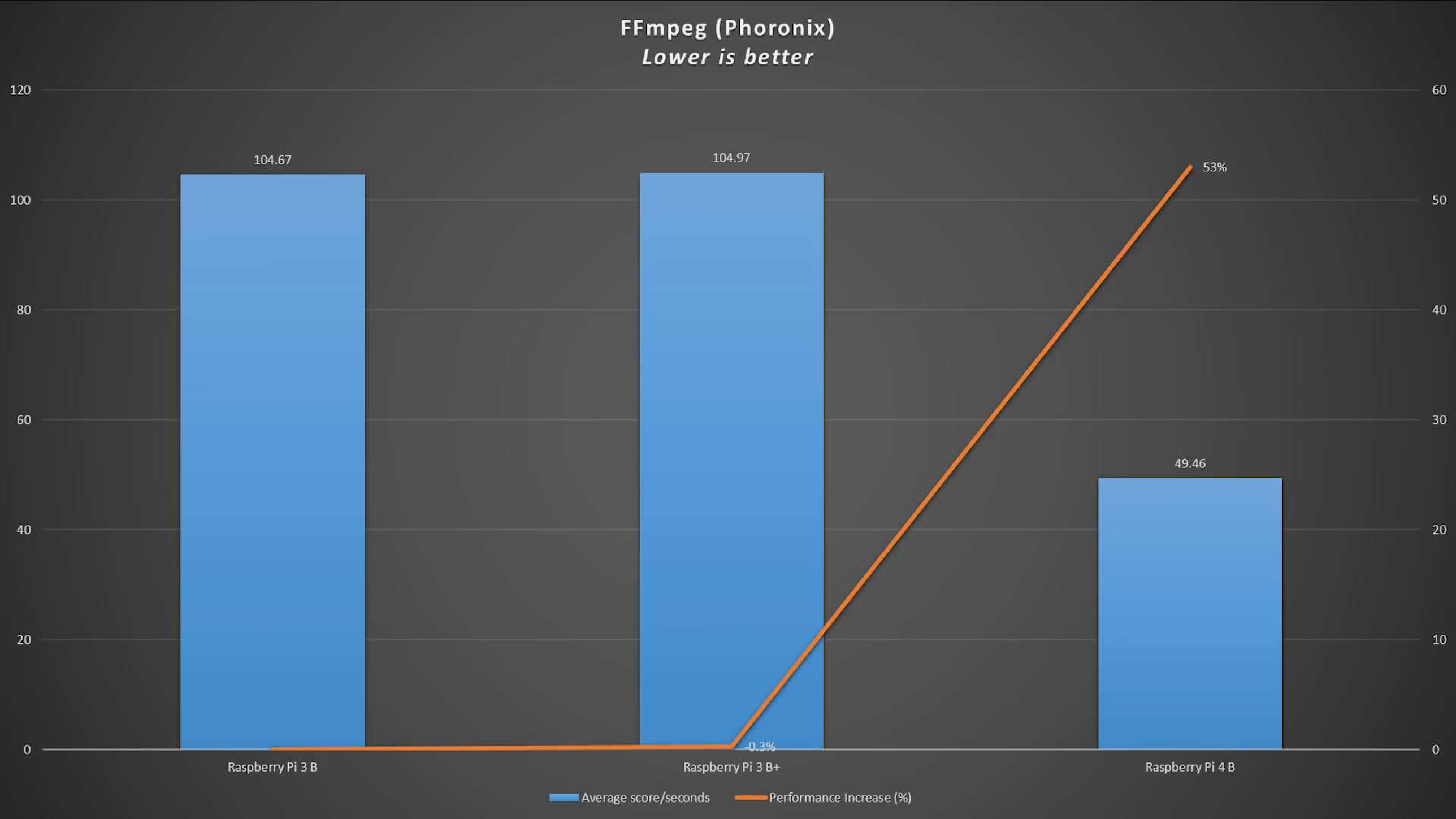
Beyond just recording the actual test value, the Phoronix

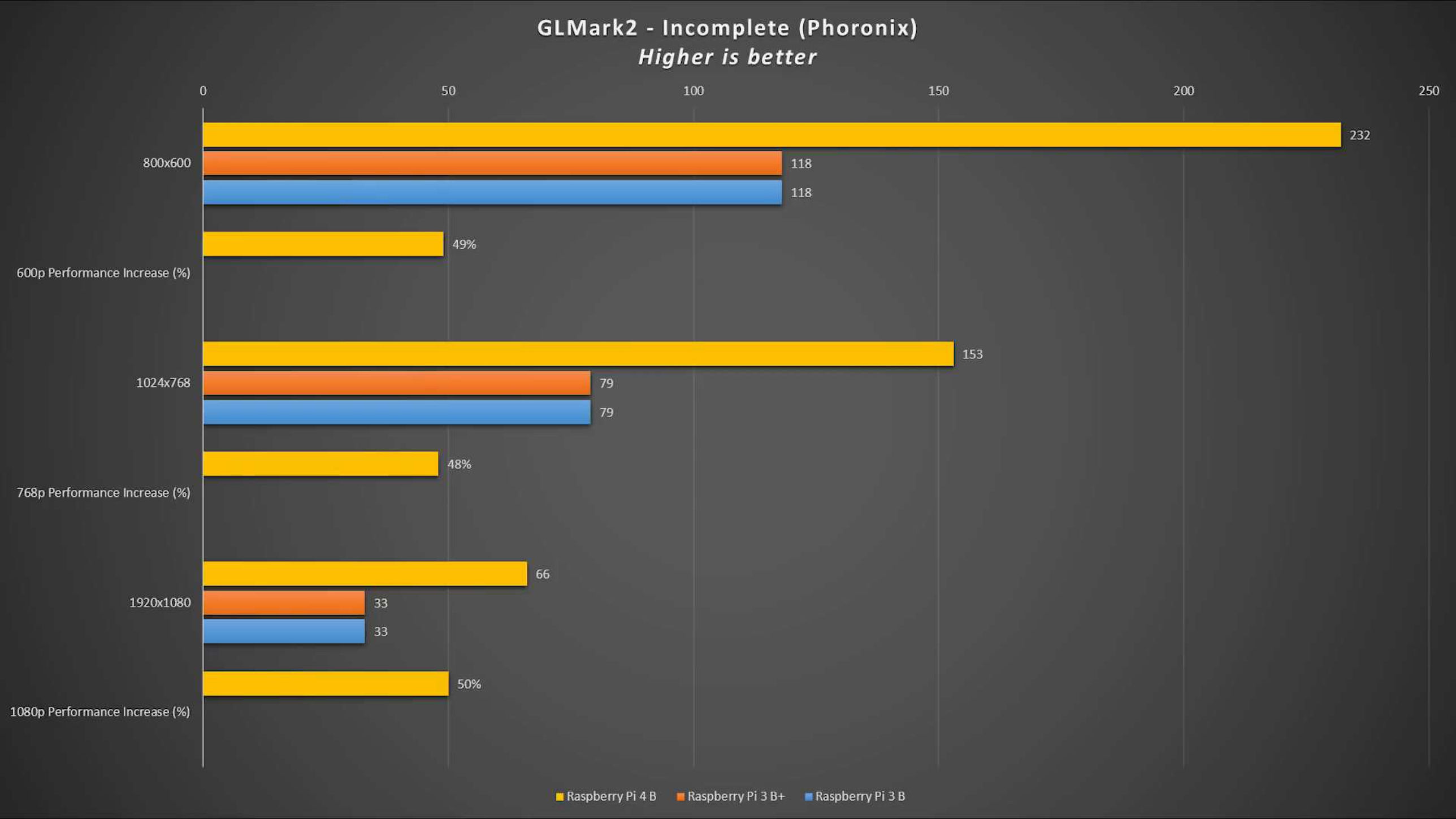
10:44 AM
6/23/2019

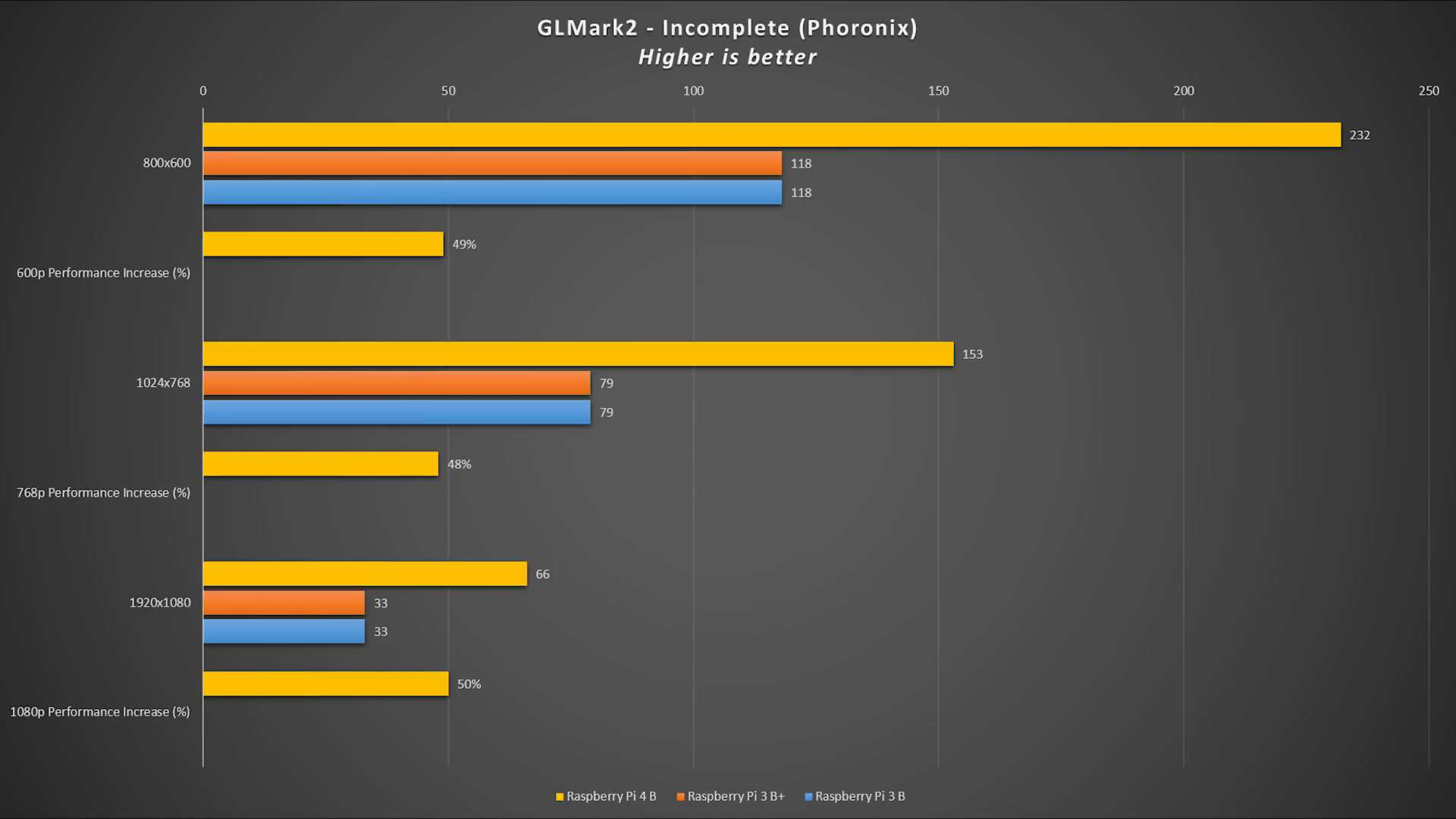
WORK
HARD

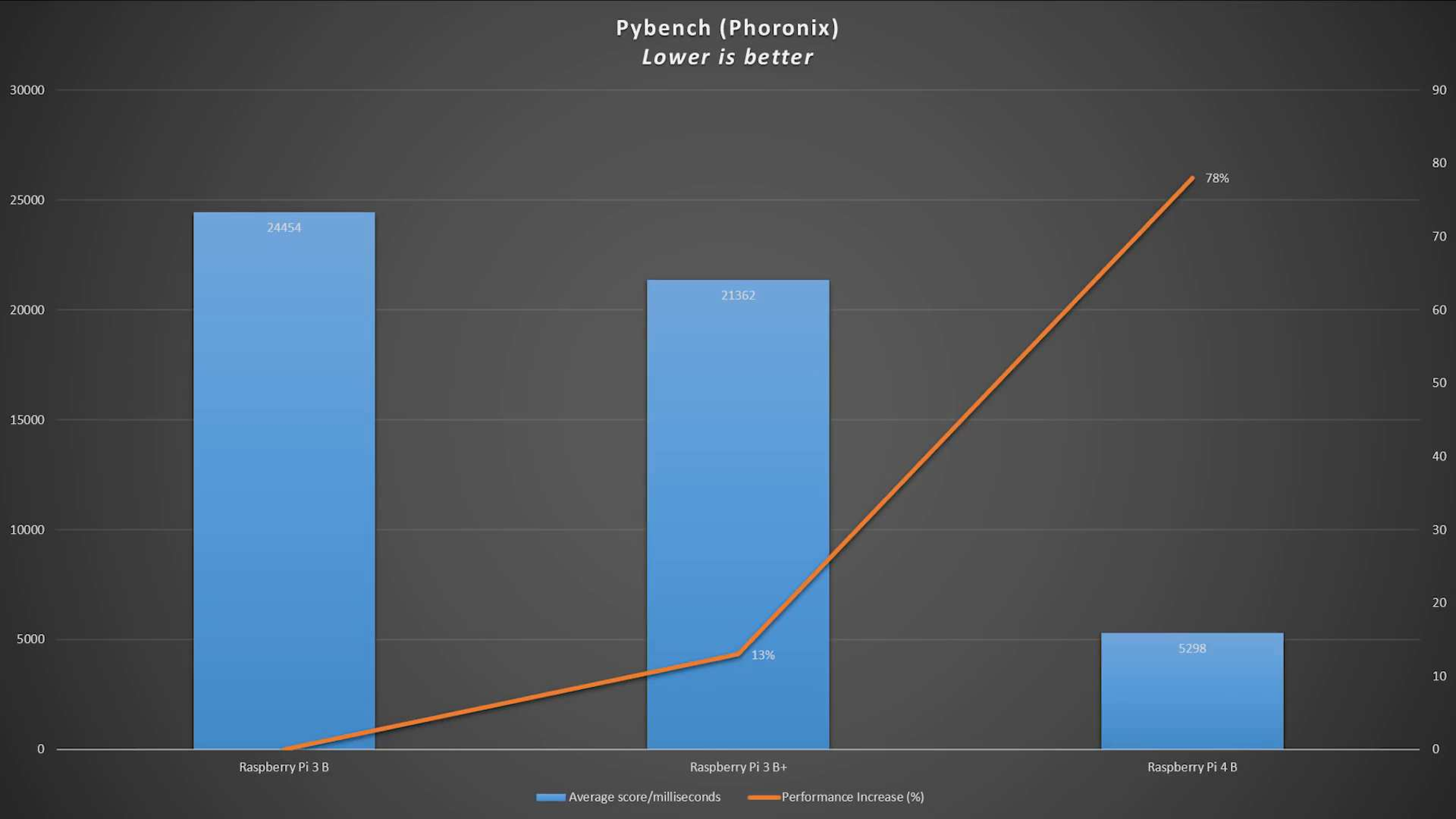

Single-Core Test (Phoronix: encode-flac)
Lower is better
450
400
350
300
250
200
150
100
50
0
80
70
60
50
40
30
20
10
0
392.92
336.66
107.35
14%
73%
Raspberry Pi 3 B
Raspberry Pi 3 B+
Raspberry Pi 4 B
Average score/seconds
Performance Increase (%)

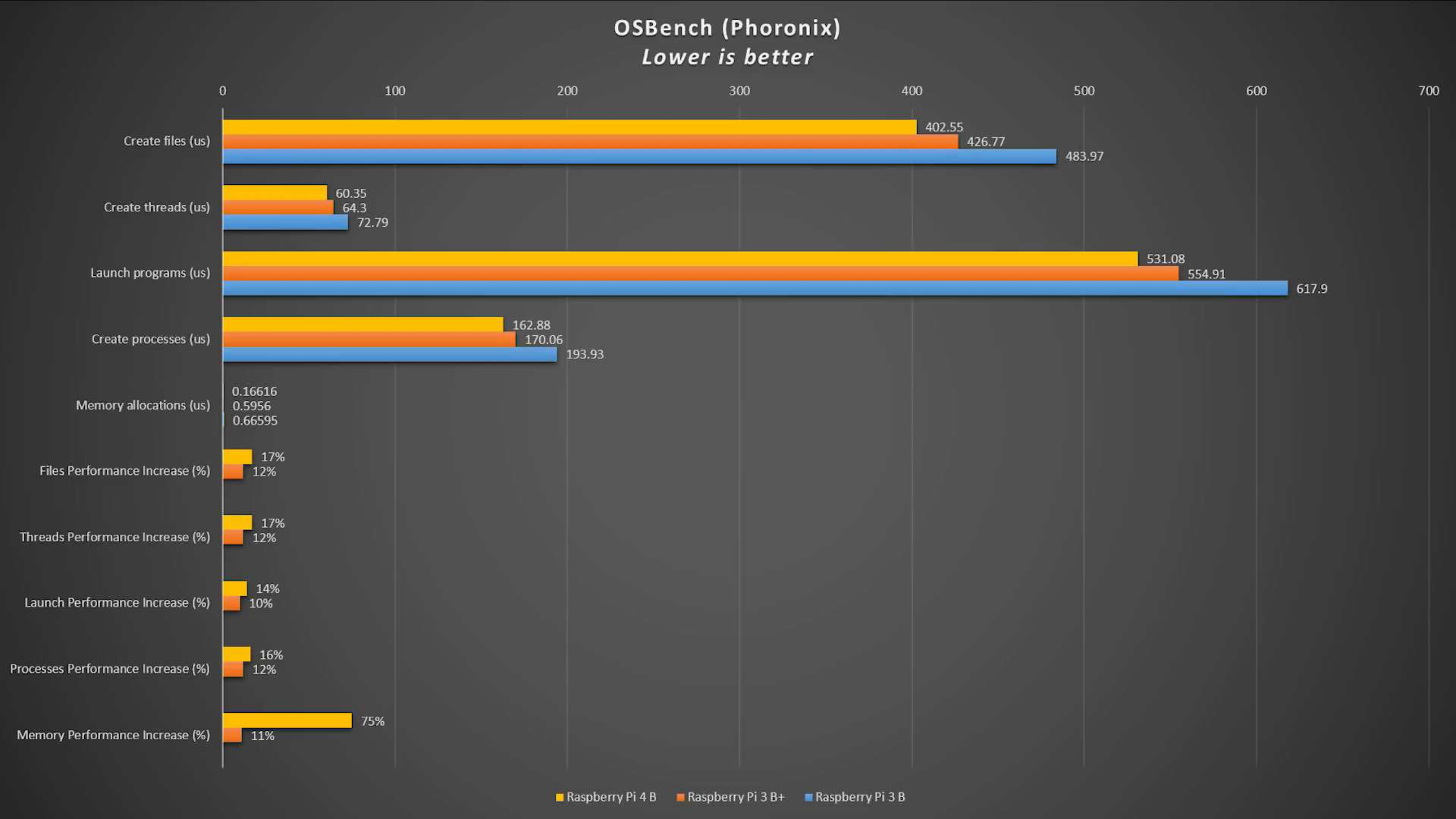

Multi-Core Test (Phoronix: Himeno)
Higher is better
180
160
140
120
100
80
60
40
20
0
70
60
50
40
30
20
10
0
56.65
60.88
153.03
7%
63%
Raspberry Pi 3 B
Raspberry Pi 3 B+
Raspberry Pi 4 B
Average score/mflops
Performance Increase (%)

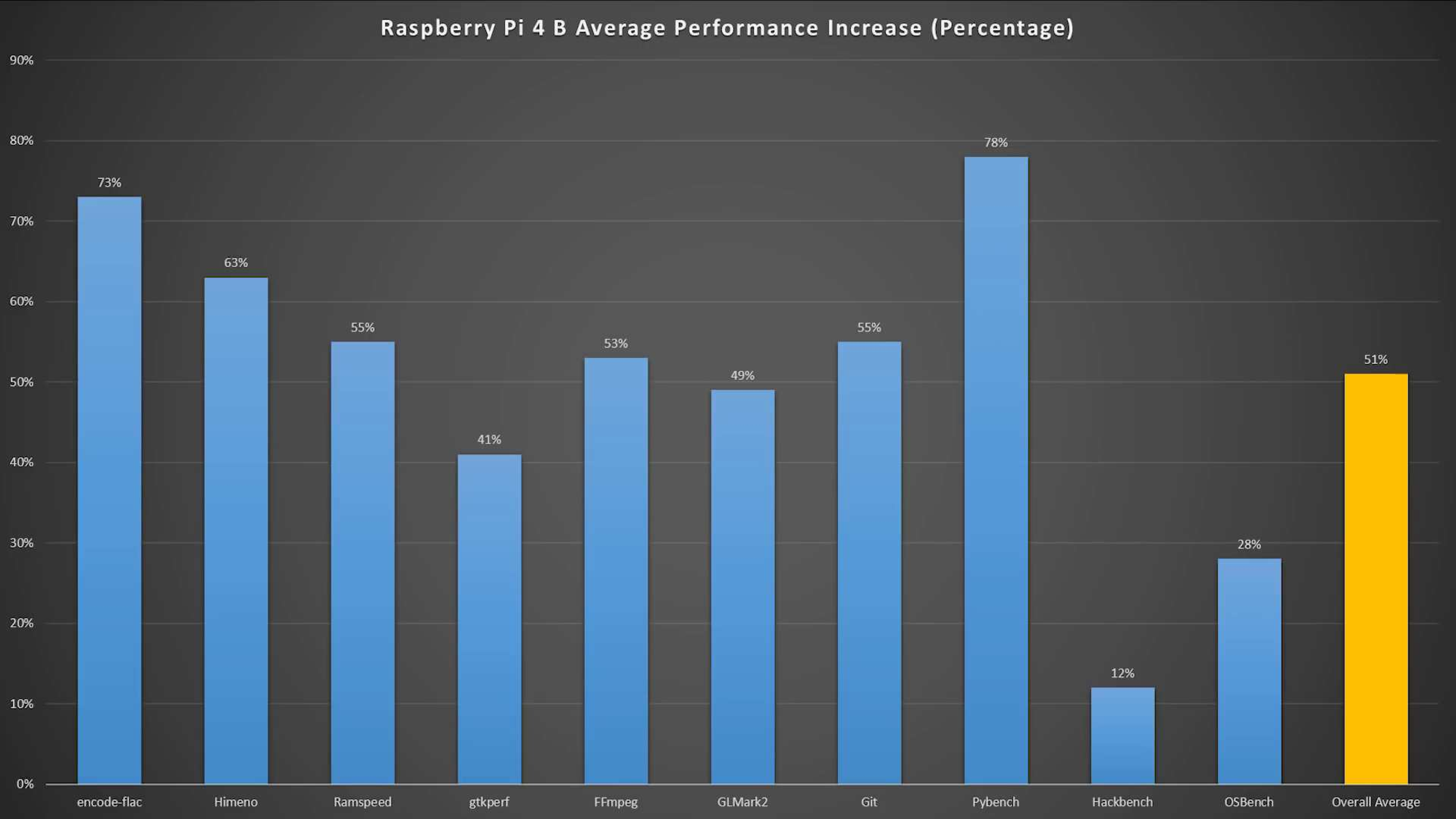

FFmpeg (Phoronix)
Lower is better
120
100
80
60
40
20
0
60
50
40
30
20
10
0
104.67
104.97
49.46
53%
-0.3%
Raspberry Pi 3 B
Raspberry Pi 3 B+
Raspberry Pi 4 B
Average score/seconds
Performance Increase (%)


GLMark2 - Incomplete (Phoronix)
Higher is better
0
50
100
150
200
250
800x600
232
118
118
49%
600p Performance Increase (%)
1024x768
153
79
79
48%
768p Performance Increase (%)
1920x1080
66
33
33
50%
1080p Performance Increase (%)
Raspberry Pi 4 B
Raspberry Pi 3 B+
Raspberry Pi 3 B


GLMark2 - Incomplete (Phoronix)
Higher is better
0
50
100
150
200
250
800x600
232
118
118
49%
600p Performance Increase (%)
1024x768
153
79
79
48%
768p Performance Increase (%)
1920x1080
66
33
33
50%
1080p Performance Increase (%)
Raspberry Pi 4 B
Raspberry Pi 3 B+
Raspberry Pi 3 B


Pybench (Phoronix)
Lower is better
30000
25000
20000
15000
10000
5000
0
90
80
70
60
50
40
30
20
10
0
24454
21362
5298
78%
13%
Raspberry Pi 3 B
Raspberry Pi 3 B+
Raspberry Pi 4 B
Average score/milliseconds
Performance Increase (%)


OSBench (Phoronix)
Lower is better
0
100
200
300
400
500
600
700
Create files (us)
402.55
426.77
483.97
Create threads (us)
60.35
64.3
72.79
Launch programs (us)
531.08
554.91
617.9
Create processes (us)
162.88
170.06
193.93
Memory allocations (us)
0.16616
0.5956
0.66595
Files Performance Increase (%)
17%
12%
Threads Performance Increase (%)
17%
12%
Launch Performance Increase (%)
14%
10%
Processes Performance Increase (%)
16%
12%
Memory Performance Increase (%)
75%
11%
Raspberry Pi 4 B
Raspberry Pi 3 B+
Raspberry Pi 3 B


Raspberry Pi 4 B Average Performance Increase (Percentage)
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
73%
63%
55%
41%
53%
49%
55%
78%
12%
28%
51%
encode-flac
Himeno
Ramspeed
gtkperf
FFmpeg
GLMark2
Git
Pybench
Hackbench
OSBench
Overall Average

WORK
HARD

WORK
HARD

WORK
HARD

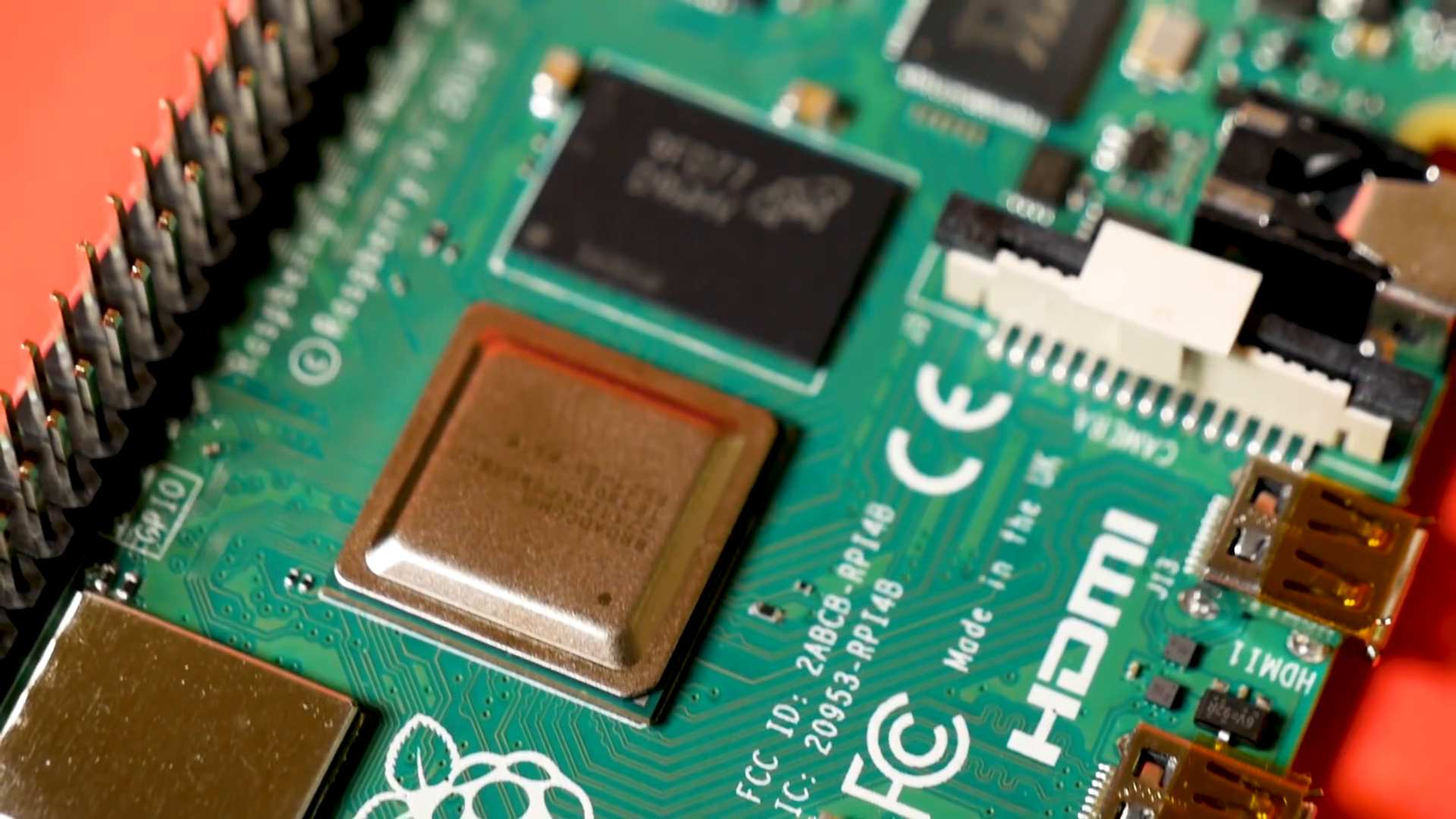
WORK
HARD

WORK
HARD

WORK
HARD

WORK
HARD

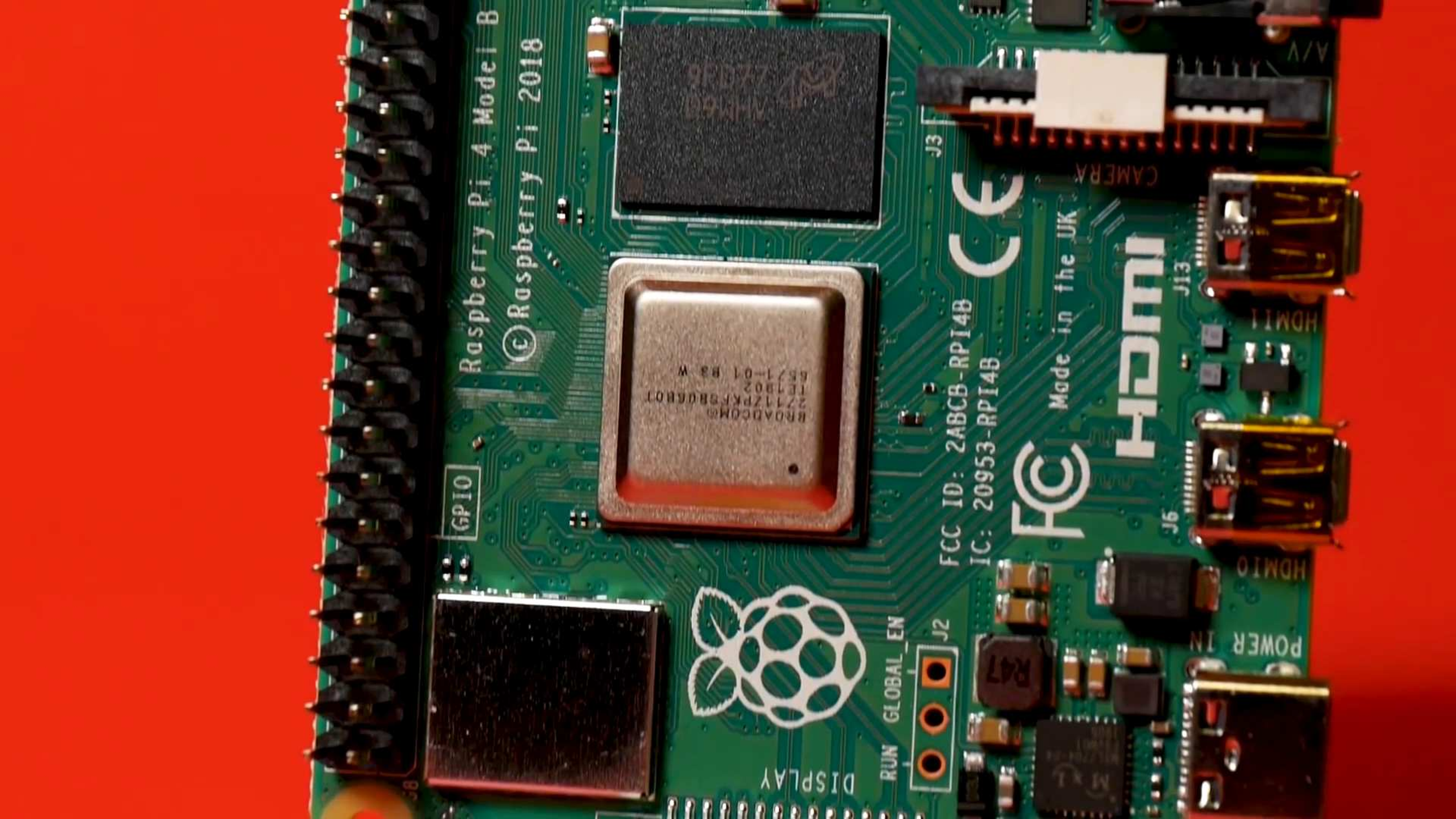
WORK
HARD


FCC ID: 2ABCB-RPI4B
IC: 20953-RPI4B
Made in the UK
HDMI
HDMI1
J13

WORK
HARD

WORK
HARD

WORK
HARD


Raspberry Pi 4 Model B
©Raspberry Pi 2018
GPIO
FCC ID: 2ABCB-RPI4B
IC: 20953-RPI4B
Made in the UK
CAMERA
HDMI1
HDMI0
POWER IN
DISPLAY
RUN
GLOBAL_EN
J2
J3
J13
J6
R47

WORK
HARD

WORK
HARD