arm

BigDFT
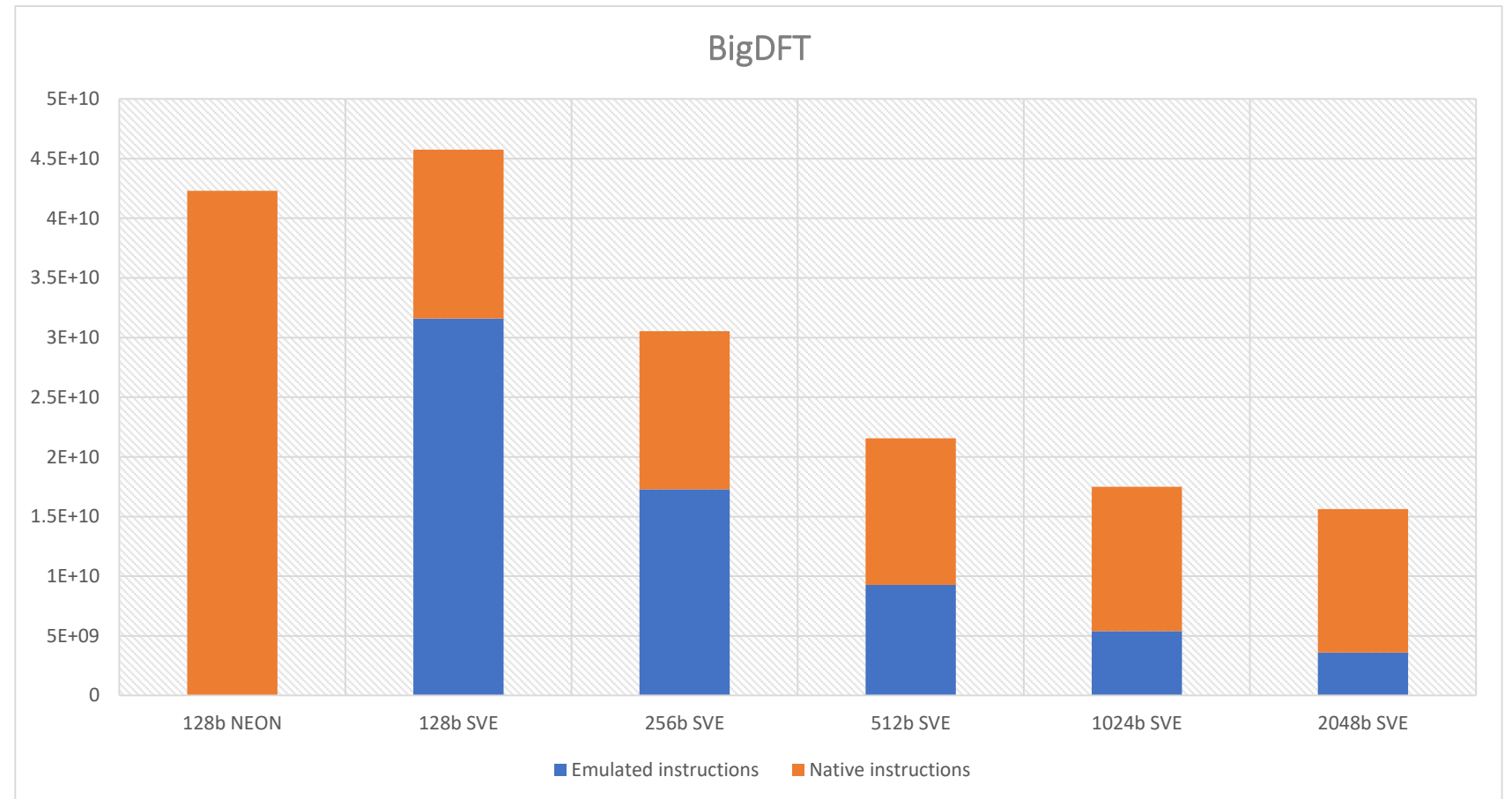
Conrad Hillairet
6th March 2020

arm

SVE

SVE ratio

Arm Compiler for Linux 20.0

BigDFT

arm

SVE ratio

GNU 9.2

BigDFT

Legend: ■ Emulated instructions ■ Native instructions

Categories: 128b NEON, 128b SVE, 256b SVE, 512b SVE, 1024b SVE, 2048b SVE

arm
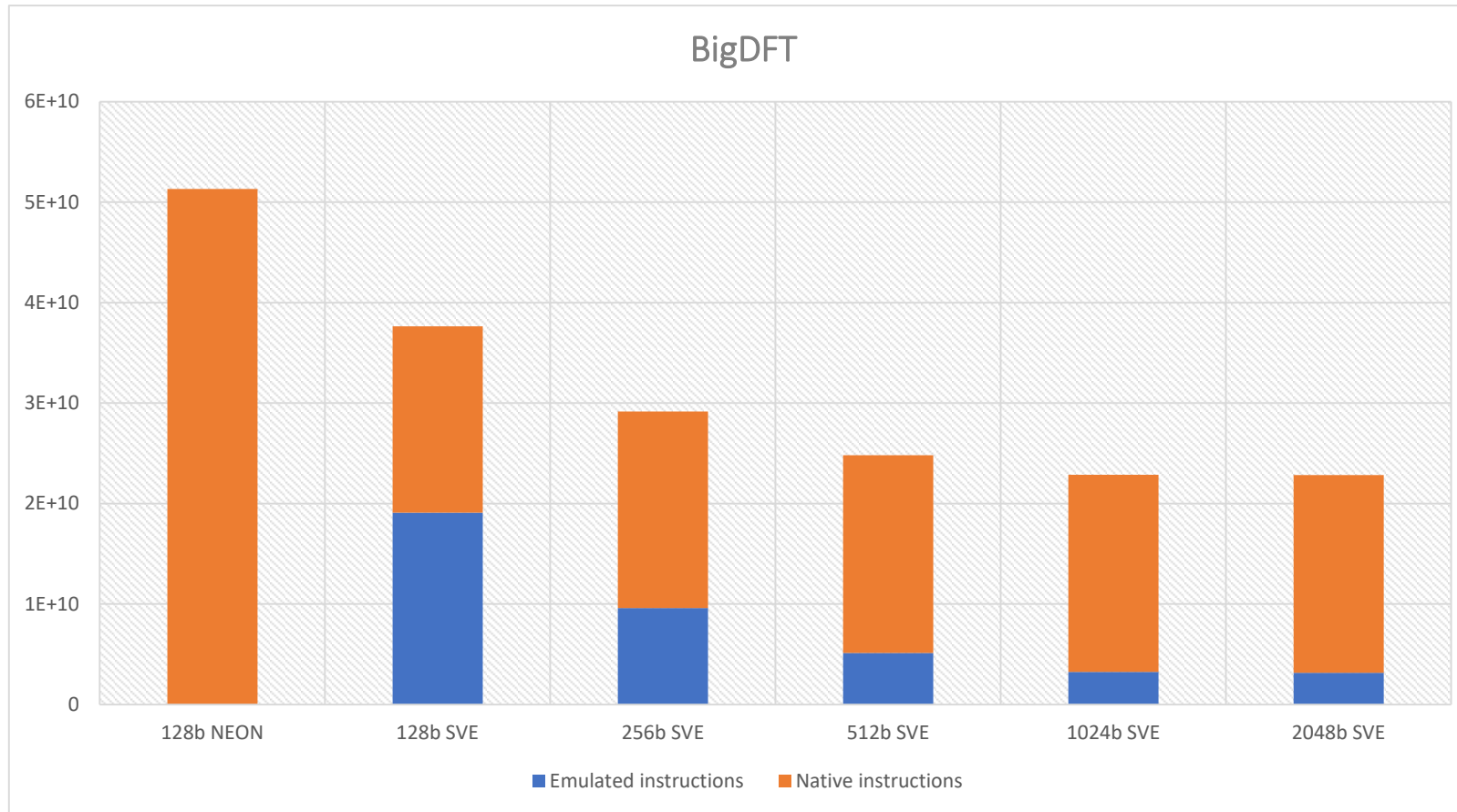
SVE ratio

Comparison across compilers

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Legend: GNU Native instructions, ACfL Native instructions, GNU Emulated instructions, ACfL Emulated instructions

Categories: 128b NEON, 128b SVE, 256b SVE, 512b SVE, 1024b SVE, 2048b SVE

arm
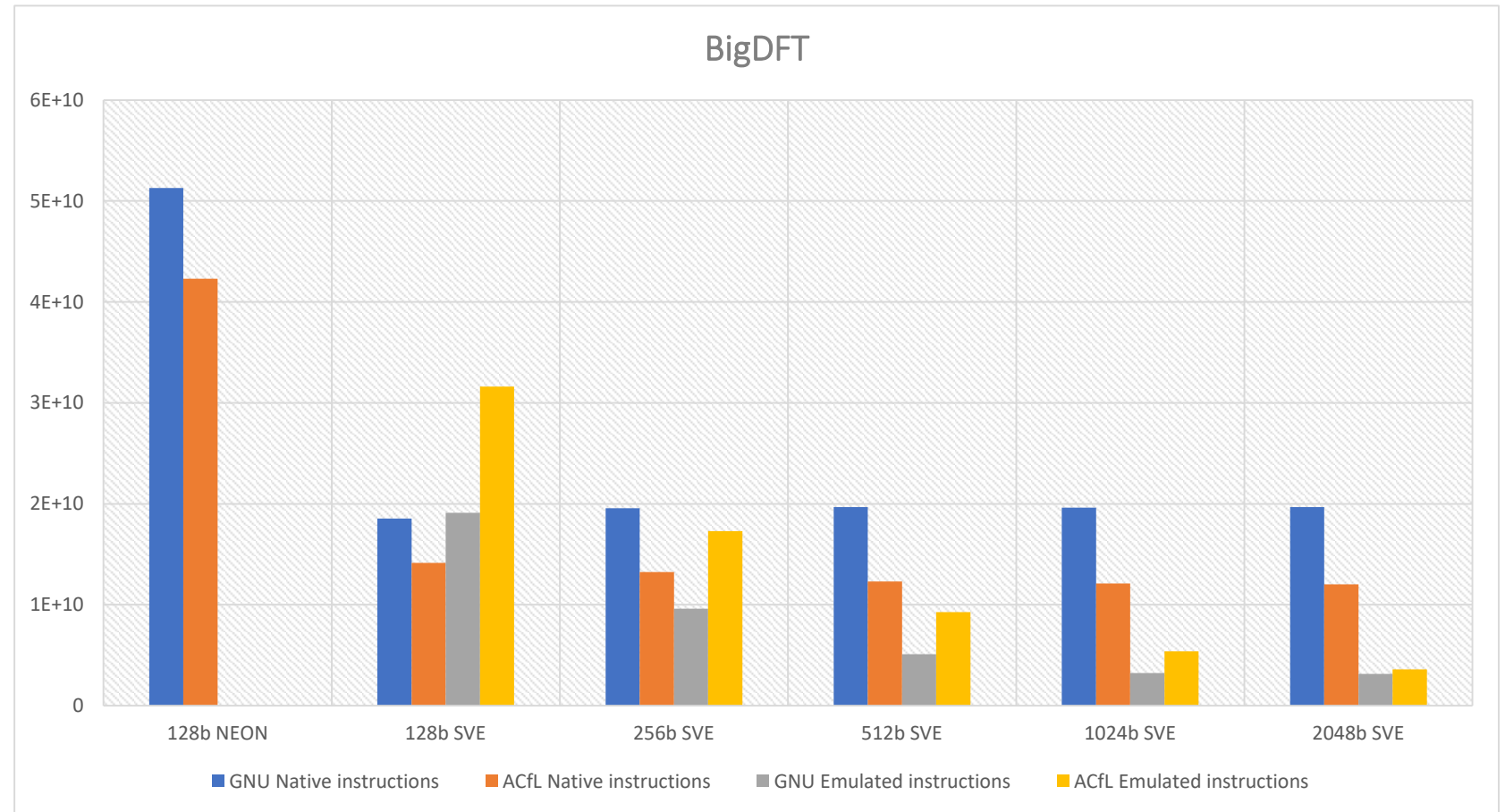
SVE instruction mix – ACfL 20.0

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arm
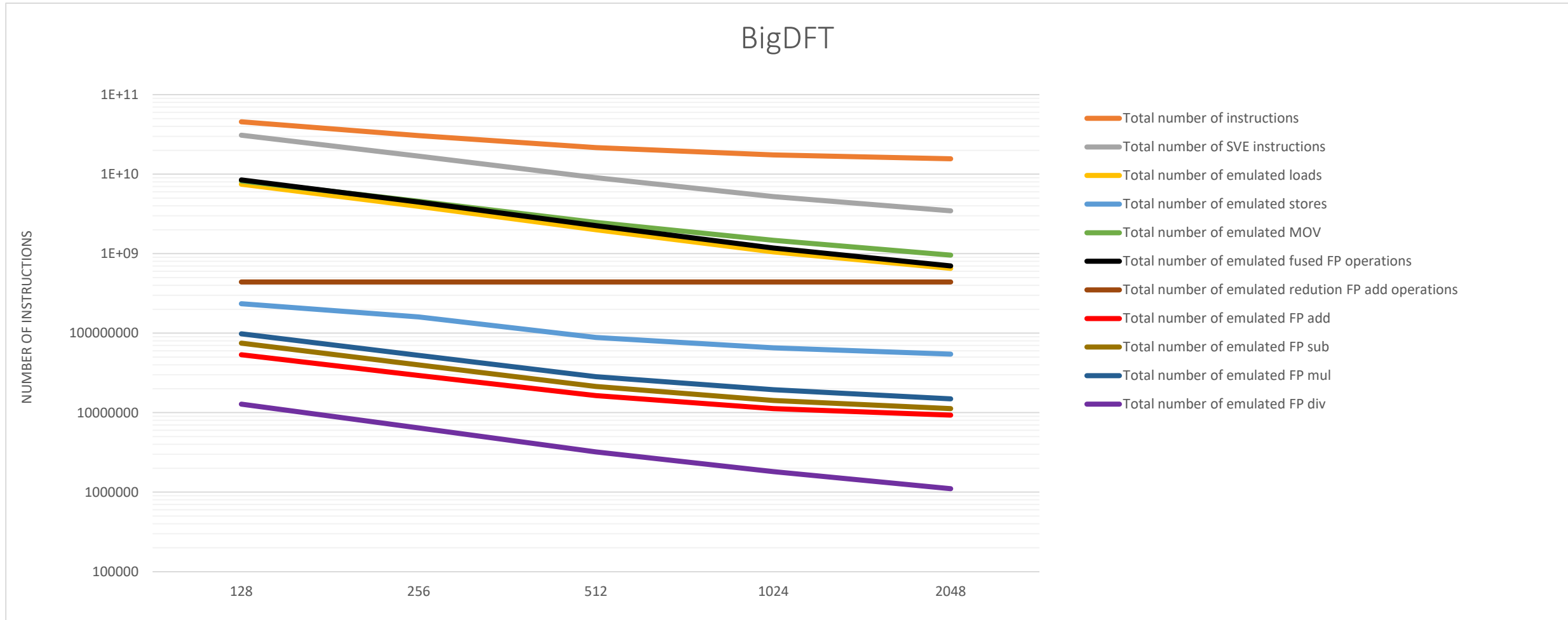
SVE instruction mix – GNU 9.2

BigDFT

arm
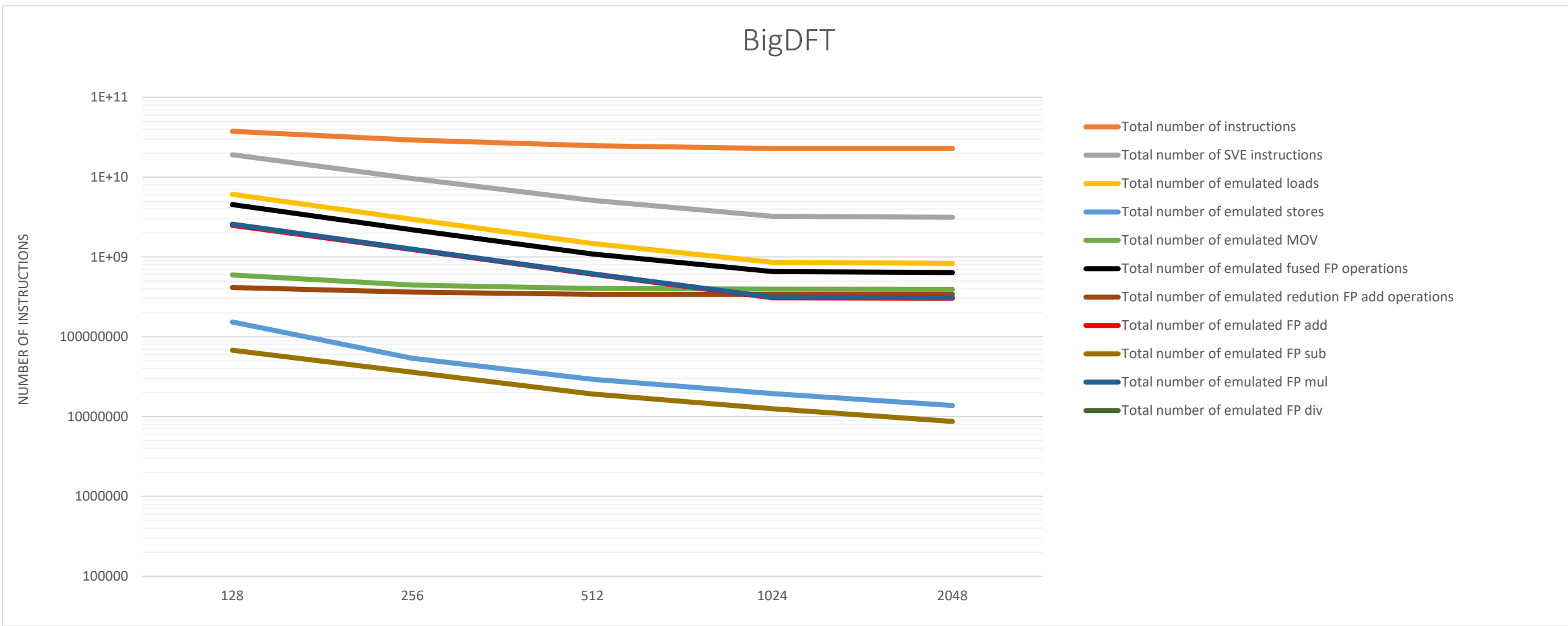
SVE instruction mix

Comparison across compilers – 512b

BIGDFT

arm
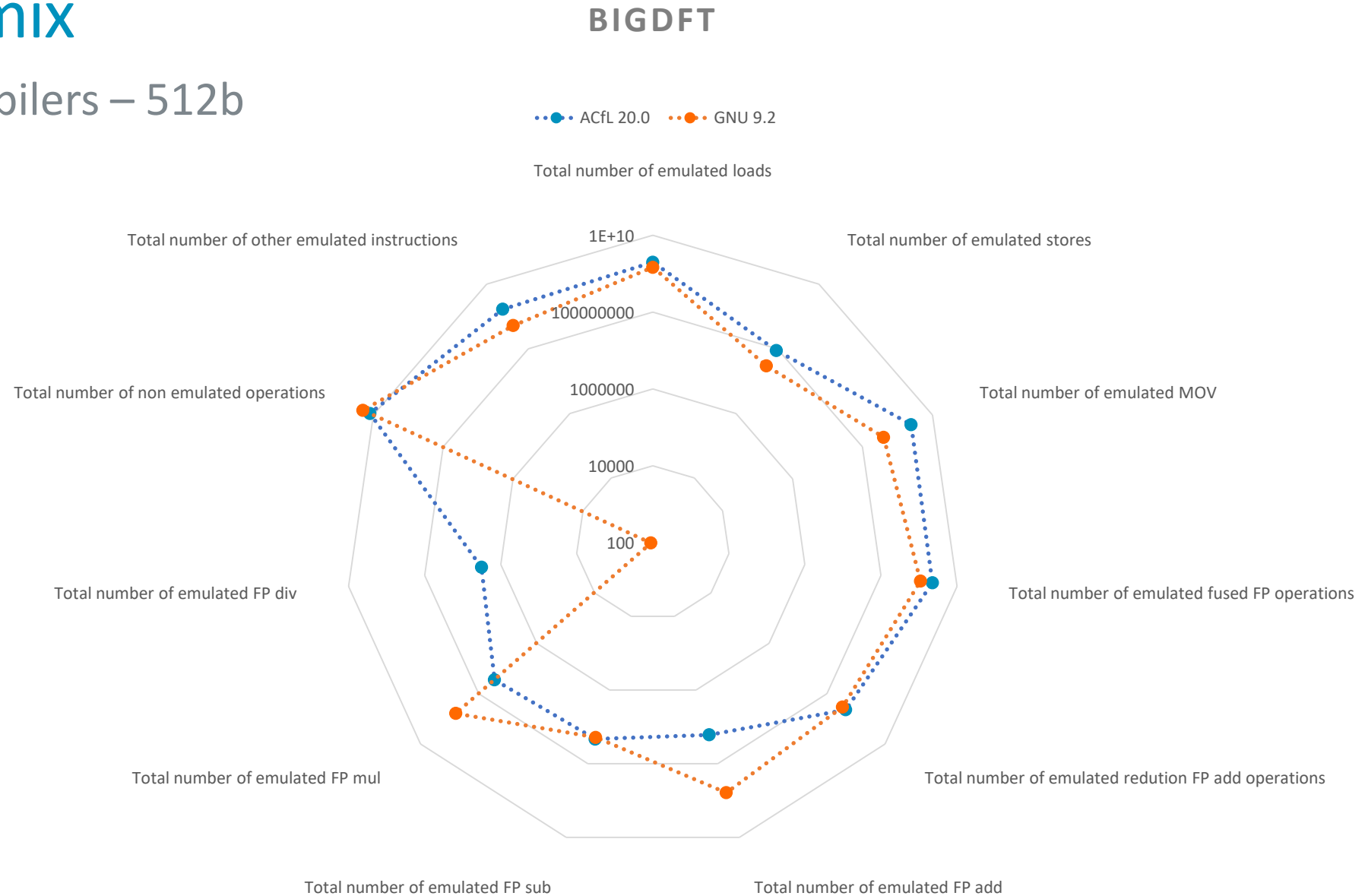
arm

Thank You
Danke
Merci
谢谢
ありがとう
Gracias
Kiitos
감사합니다
धन्यवाद
شكرًا
תודה

arm