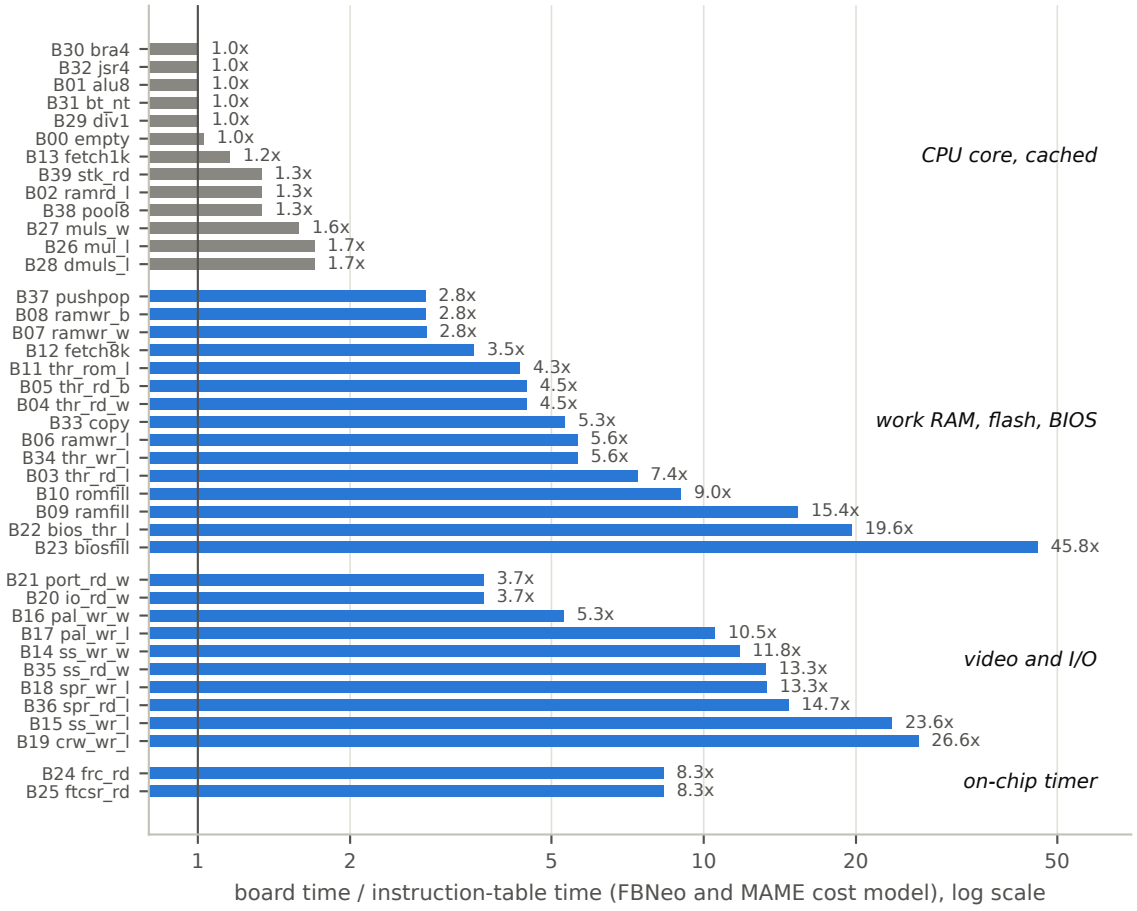

B30 bra4 1.0x
B32 jsr4 1.0x
B01 alu8 1.0x
B31 bt_nt 1.0x
B29 div1 1.0x
B00 empty 1.0x
B13 fetch1k 1.2x
B39 stk_rd 1.3x
B02 ramrd_l 1.3x
B38 pool8 1.3x
B27 muls_w 1.6x
B26 mul_l 1.7x
B28 dmuls_l 1.7x
CPU core, cached
B37 pushpop 2.8x
B08 ramwr_b 2.8x
B07 ramwr_w 2.8x
B12 fetch8k 3.5x
B11 thr_rom_l 4.3x
B05 thr_rd_b 4.5x
B04 thr_rd_w 4.5x
B33 copy 5.3x
B06 ramwr_l 5.6x
B34 thr_wr_l 5.6x
B03 thr_rd_l 7.4x
B10 romfill 9.0x
B09 ramfill 15.4x
B22 bios_thr_l 19.6x
B23 biosfill 45.8x
work RAM, flash, BIOS
B21 port_rd_w 3.7x
B20 io_rd_w 3.7x
B16 pal_wr_w 5.3x
B17 pal_wr_l 10.5x
B14 ss_wr_w 11.8x
B35 ss_rd_w 13.3x
B18 spr_wr_l 13.3x
B36 spr_rd_l 14.7x
B15 ss_wr_l 23.6x
B19 crw_wr_l 26.6x
video and I/O
B24 frc_rd 8.3x
B25 ftcsr_rd 8.3x
on-chip timer
1
2
5
10
20
50
board time / instruction-table time (FBNeo and MAME cost model), log scale