Transformer, Mamba, minGRU, Hawk, Attamba isoAttentiveSSM4 33.54 160 isoAttentiveSSM8 34.30 isoAttentiveSSM16 39.72 isoKV4 33.49 140 isoKV8 36.73 WK2 Perplexity isoKV16 38.62 isoFLOP160 62.41 120 isoFLOP184 61.61 isoFLOP224 51.69 100 80 60 40 10000 20000 40000 50000 60000 30000 Global Step