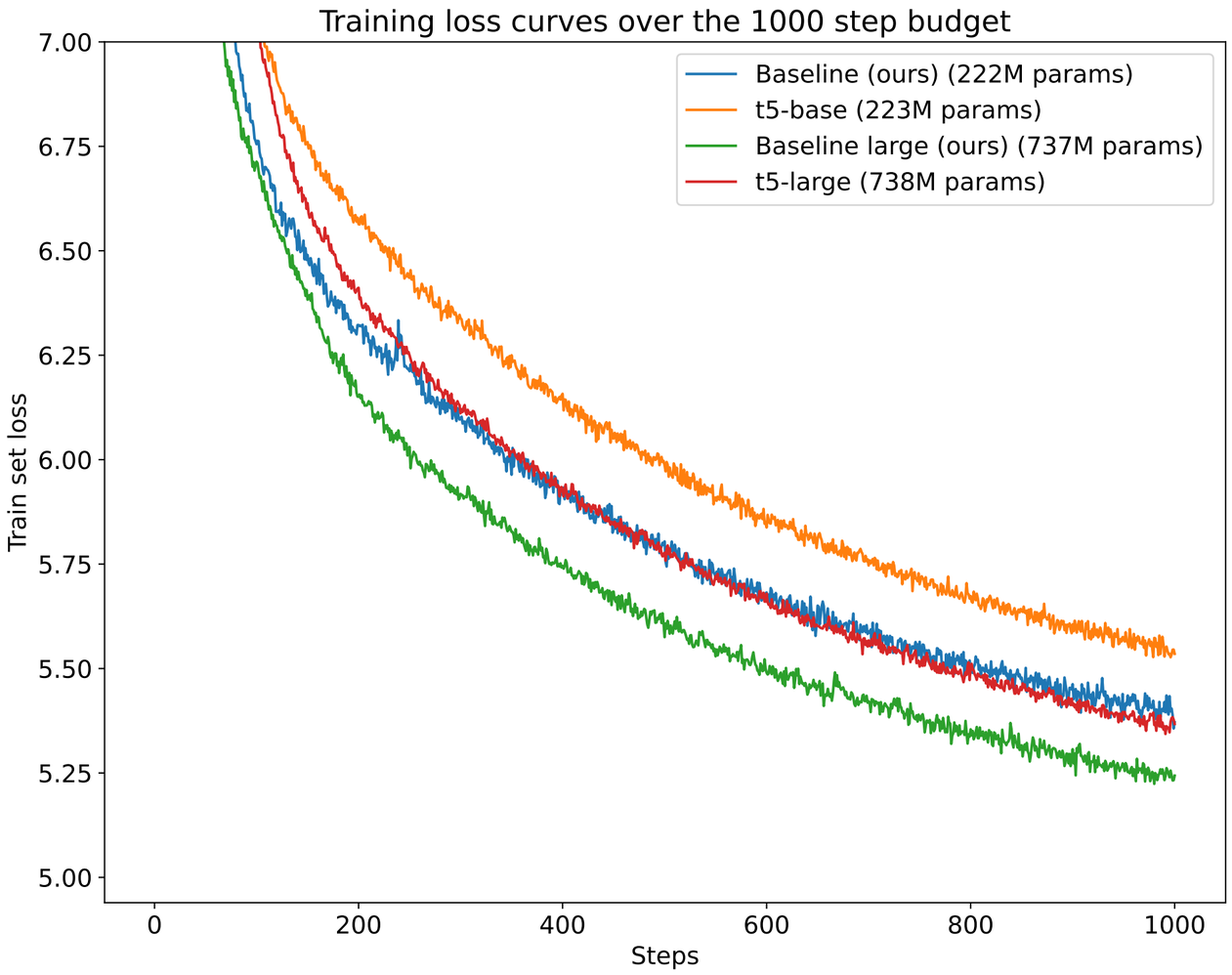
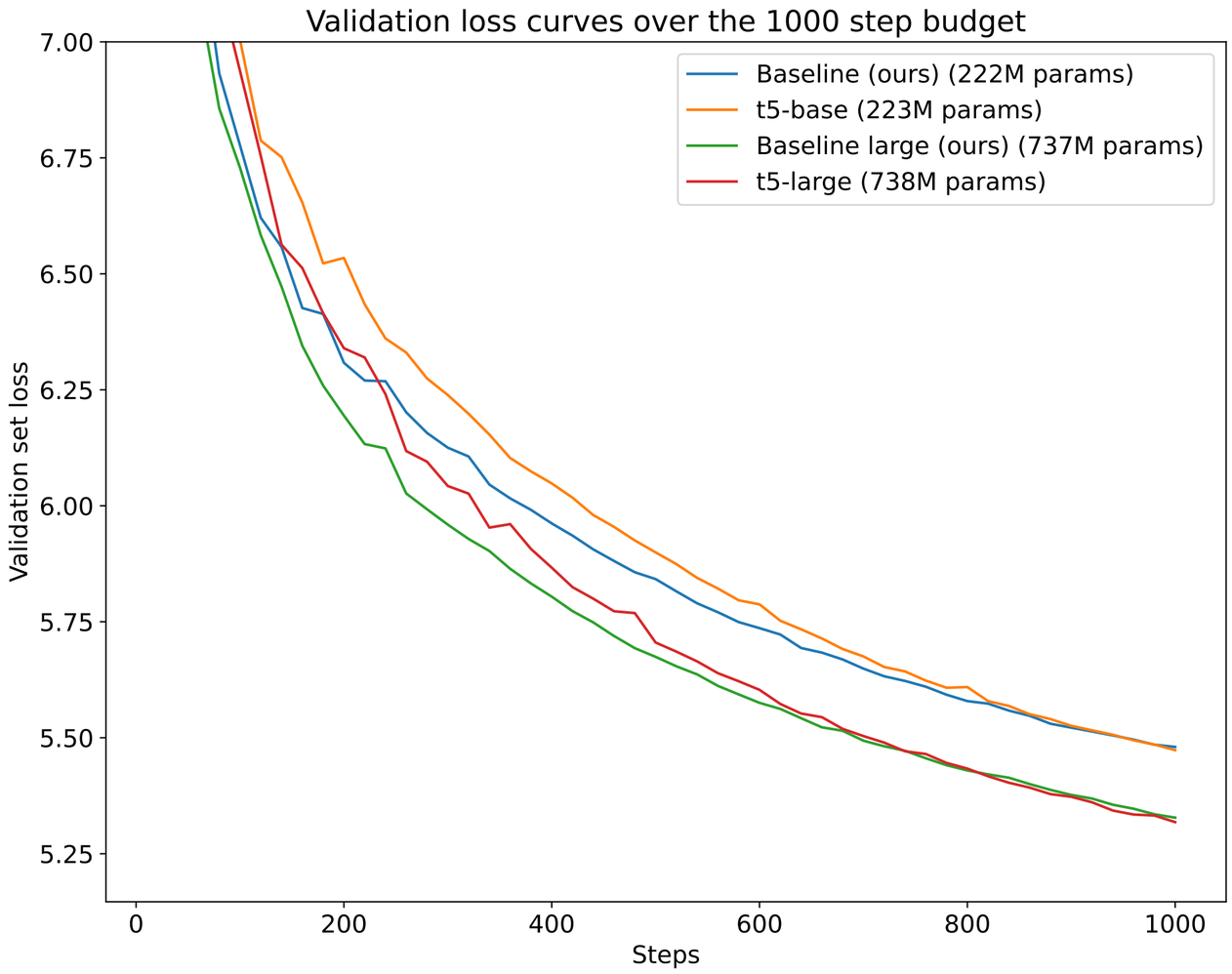
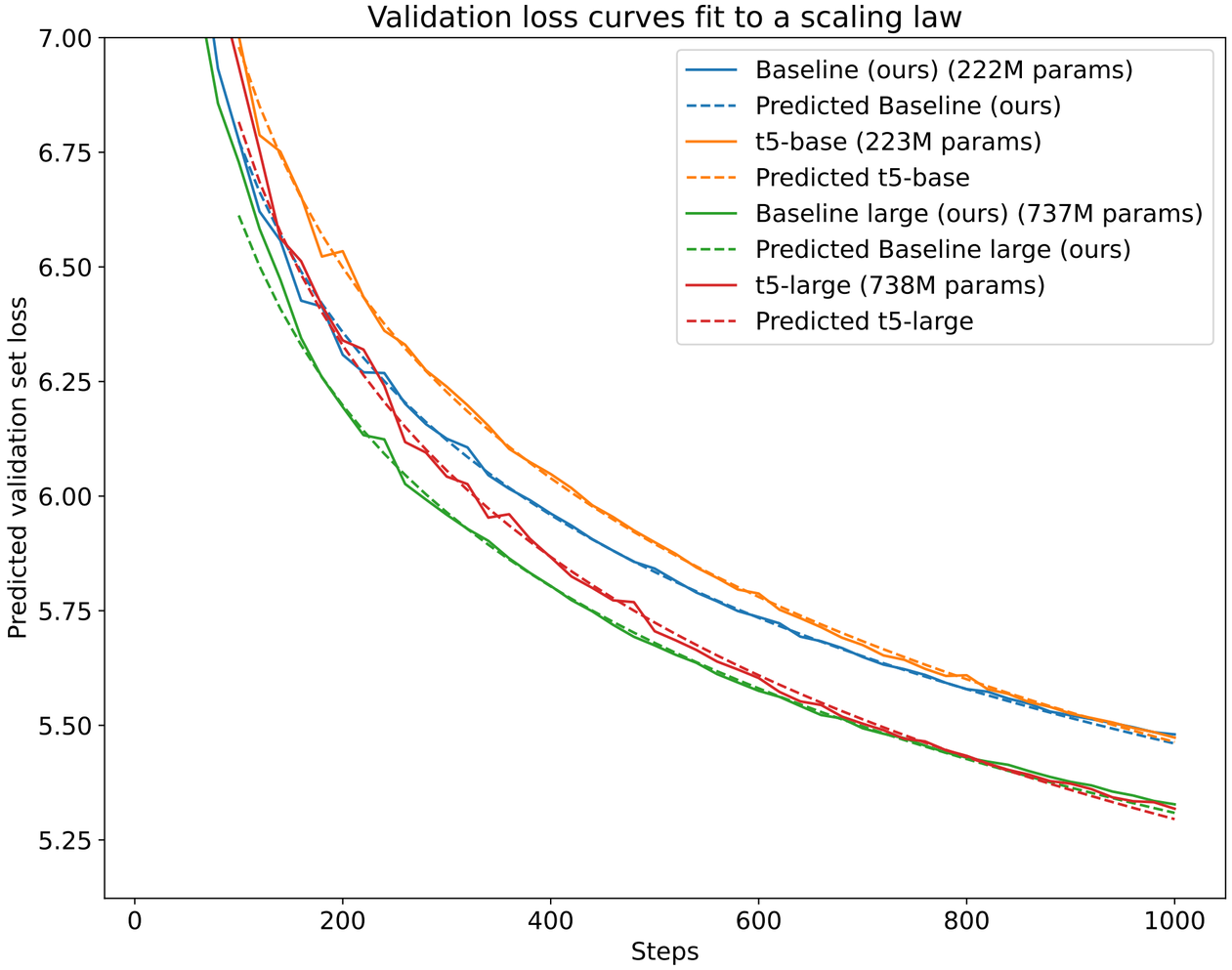
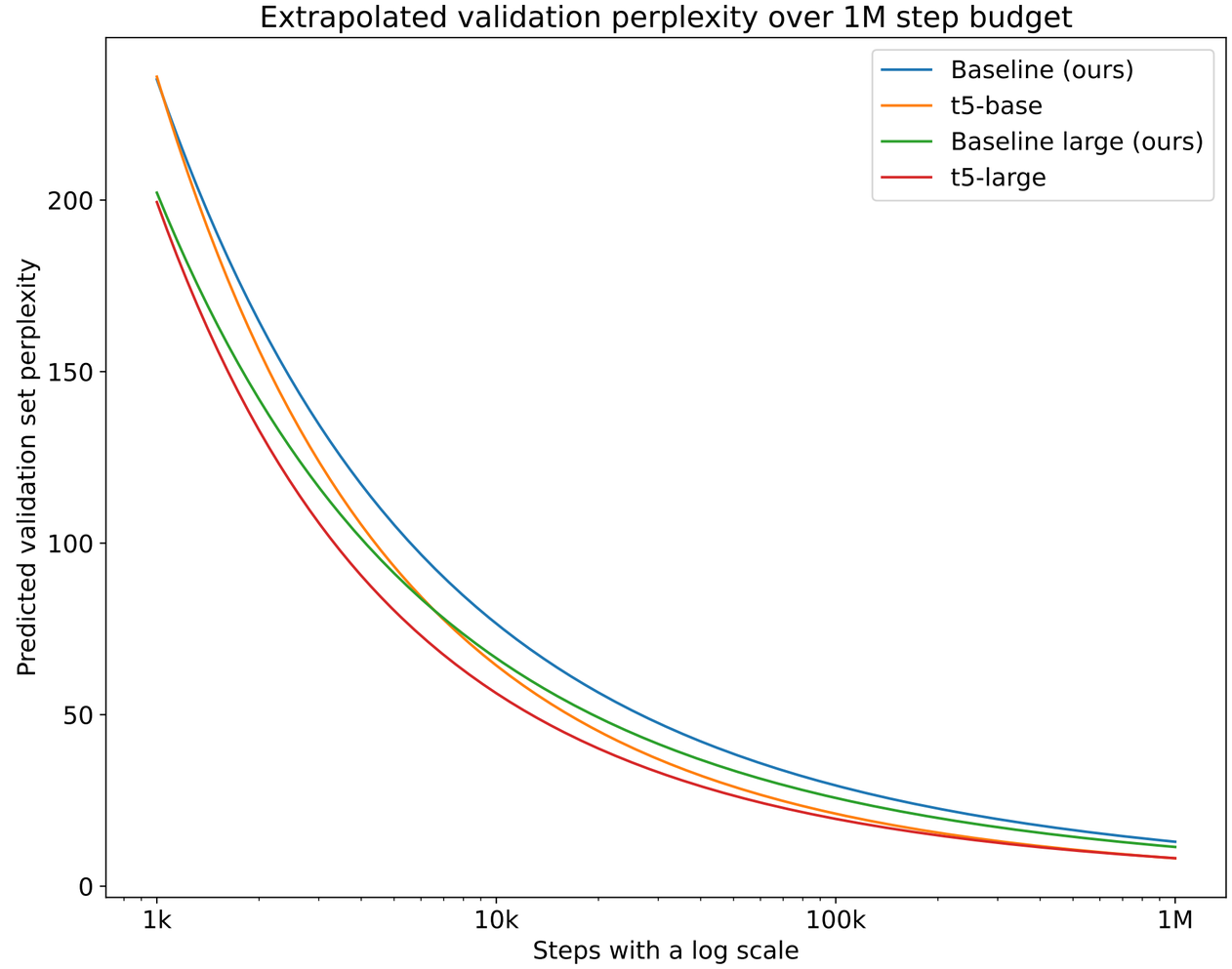
Our reimplementation and t5 baseline









Scaling law fit details and perplexity (PPL) predictions

Experiment	Scaling law	Mean L1 residual	PPL at 1k	PPL at 10k	PPL at 100k	PPL at 300k	PPL at 1M
Baseline (ours)	8.98(t ** -0.069) - 2.20	0.009	235.184	76.542	29.363	19.558	12.961
t5-base	10.61(t ** -0.067) - 3.63	0.009	235.975	64.353	21.129	13.155	8.134
Baseline large (ours)	8.90(t ** -0.069) - 2.29	0.013	202.160	66.469	25.721	17.196	11.438
t5-large	9.06(t ** -0.080) - 2.24	0.017	199.426	56.251	19.622	12.659	8.168