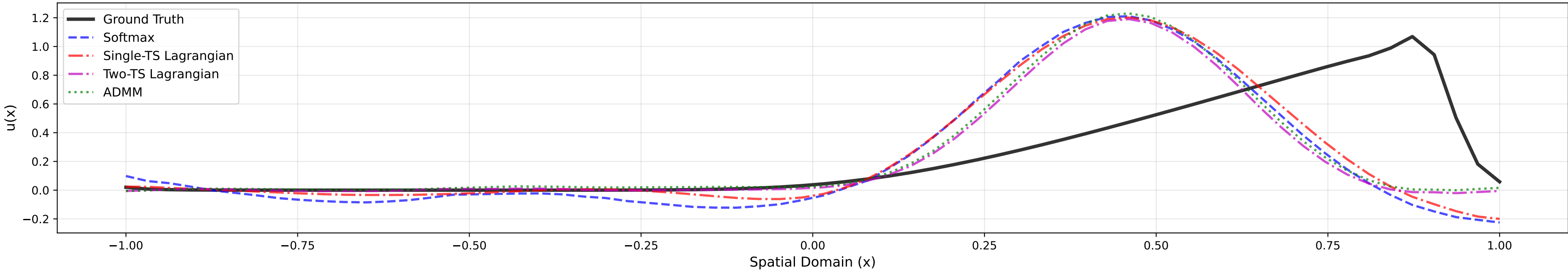
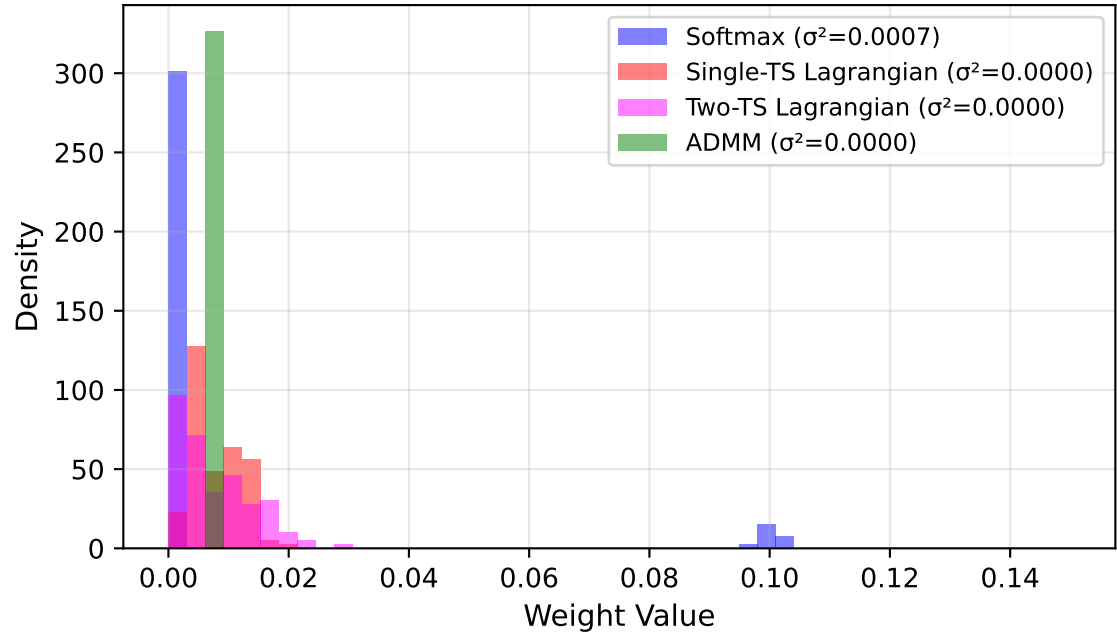


Large-Scale Multi-Source Integration: Timescale Comparison in Lagrangian Methods

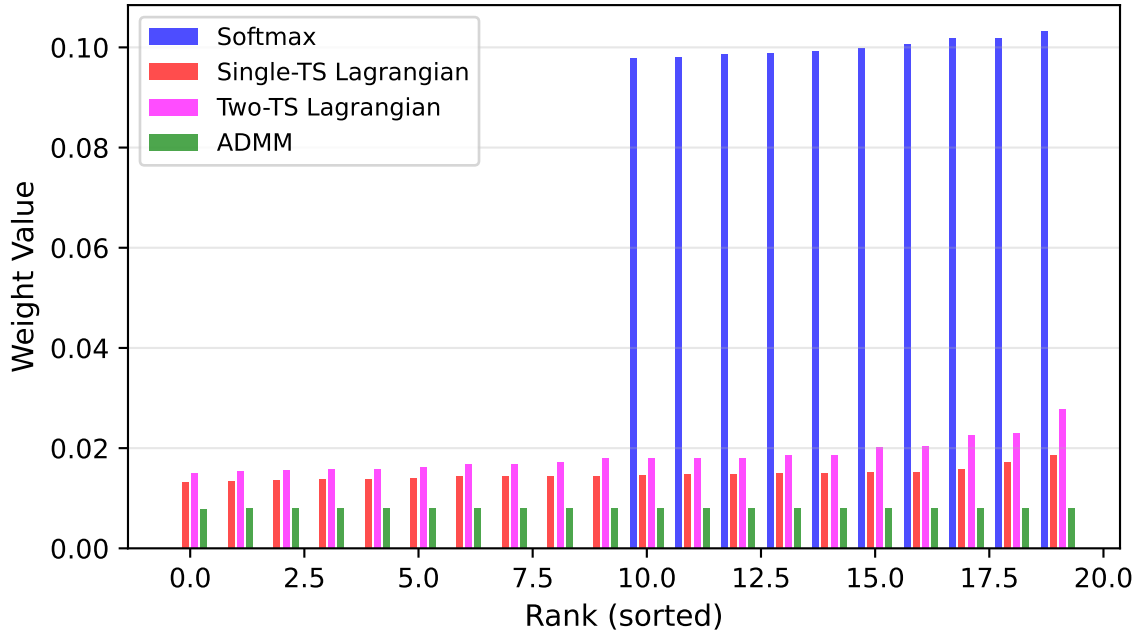
One-Step Ahead Predictions: All Methods



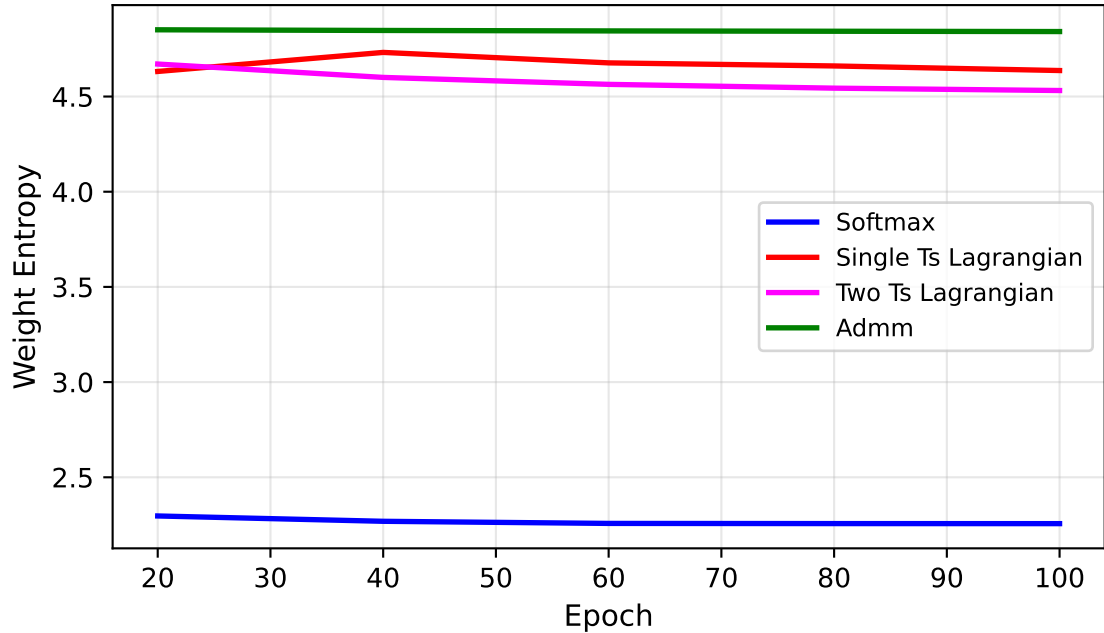
Weight Distribution Comparison



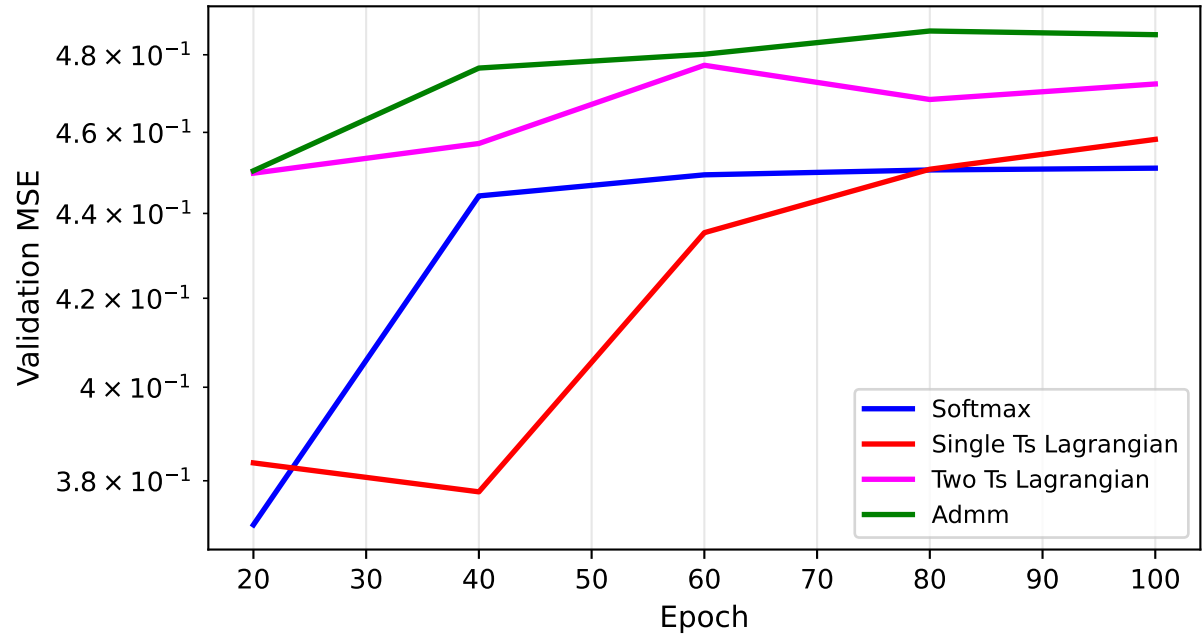
Top-20 Sources Comparison



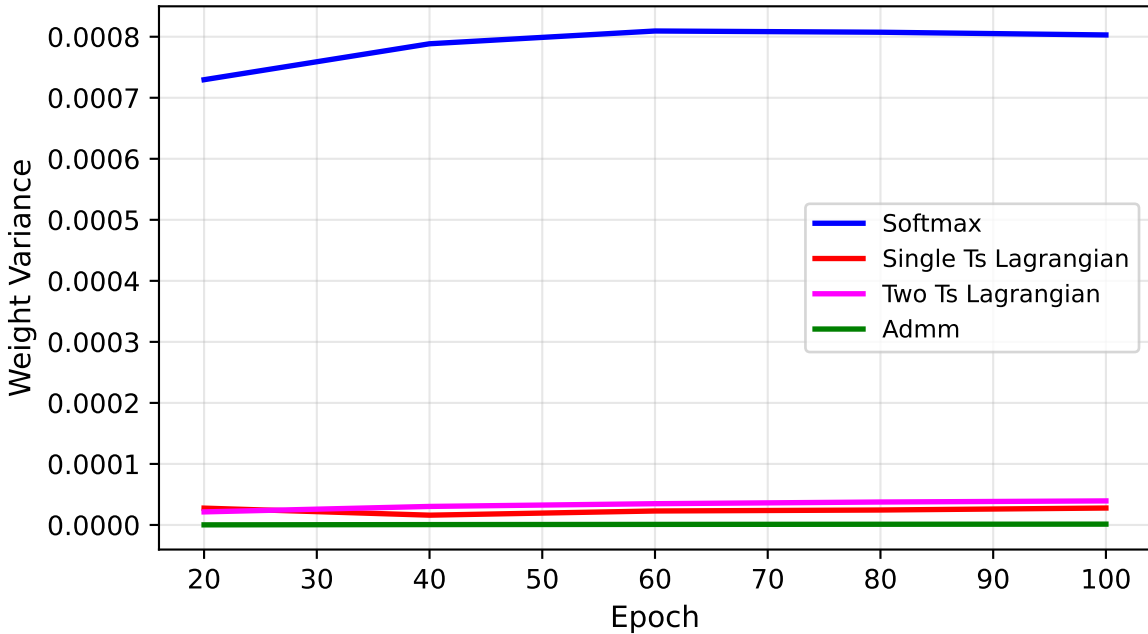
Weight Concentration During Training



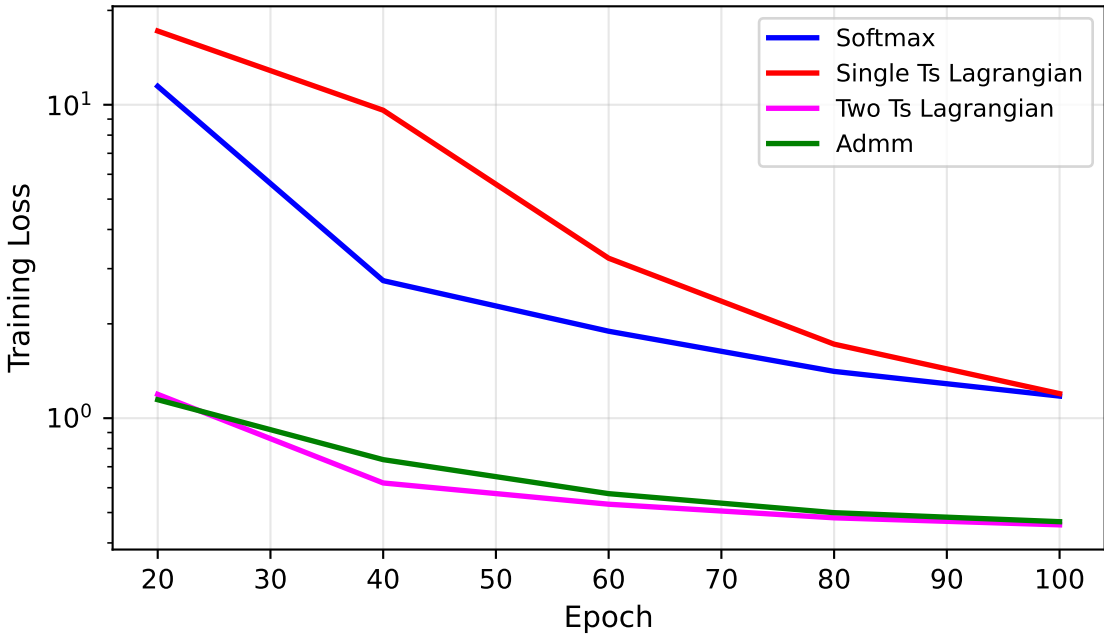
Validation Loss Comparison



Weight Variance During Training



Training Loss Comparison



Summary Statistics and Characteristics

Metric	Softmax	Single-TS Lagrangian	Two-TS Lagrangian	ADMM
Final Val MSE	0.4511	0.4582	0.4724	0.4853
Final Train Loss	1.1762	1.1976	0.4568	0.4675
Weight Variance	0.0008	0.0000	0.0000	0.0000
Weight Entropy	2.2565	4.6366	4.5316	4.8413
Characteristic	Balanced Ensemble	Fixed Step Lagrangian	Adaptive Lagrangian	Distributed Optimization