Max Value:

Max of value												Total	Total In Sec	Total In Sec
Row Labels	EpochTime (Max)	GPU/Memory(MiB)	GPU/Utilization(%)	GradientNorm	HitRate@10/test	LR	Loss/train	TotalParams	MRR@10/test	NDCG@10/test	Recall@10/test	Epoch Trained	Epoch Time (Avg)	Epoch Time (Sum)
BERT4Rec														
100K														
50	6.91	1177	38	7.59	0.14	0.001	4888.11	274835	0.047	0.068	0.136	5	5 7	47
75	6.94	1177	35	7.03	0.13	0.001	4884.57	276435	0.045	0.064	0.131		5 7	41
100	6.90	1177	36	7.84	0.12	0.001	4877.71	278035	0.039	0.057	0.118	3 6	5 7	47
1M												_		
50	92.87	,		6.07	0.29	0.001	45807.93	1372923	0.126	0.163	0.286	5	92	919
75	93.73			4.85	0.29	0.001	45805.49	1376123	0.127	0.164	0.290	12	92	1,193
100	92.43			4.96	0.29	0.001	45809.74	1379323	0.127	0.164	0.290	13	91	1,275
SAS4Rec												_		
100K														
50	5.97	1177	(3.47	0.14	0.001	5113.95	270291	0.049	0.068	0.136	7	7 6	47
75	6.05	1177	35	4.12	0.13	0.001	5144.62	271891	0.046	0.064	0.133	12	2 6	76
100	6.04	1177	33	3.32	0.13	0.001	5112.20	273491	0.042	0.060	0.128	3	6	41
1M														-
50	83.36	i		5.13	0.28	0.001	47815.95	1355643	0.125	0.162	0.284	14	82	1,236
75	83.39			2.72	0.28	0.001	48036.96	1358843	0.123	0.160	0.280	14	82	1,236
100	84.83			2.76	0.28	0.001	48267.37	1362043	0.123	0.160	0.282	2 14	84	1,257
xLSTM												_		
100K														
50	20.49	1177	38	3.41	0.12	0.001	5142.62	269188	0.045	0.062	0.118	3	14	68
75	12.68	1177	40	3.31	0.12	0.001	5156.19	269188	0.040	0.057	0.120) 4	13	63
100	64.24	1177	40	3.74	0.11	0.001	5150.41	269188	0.042	0.059	0.115	5 5	5 22	129
1M														
50					0.20		51217.27		0.087	0.113	0.198	3	220	2,420
75					0.21		50743.71		0.094	0.122	0.214	7	7 -	-
100	220.68			1.44	0.22	0.001	50920.25	1376904	0.093	0.122	0.215	10	-	-
Grand Total (Max)) 220.68	1177	40	7.84	0.29	0.001	51217.27	1379323	0.127	0.164	0.290)		

Testing Scope: (27 Combinations)

Three Models, Three Datasets, Three Sequence Length

Models	Bert4Rec	Sas4Rec	xLSTM	
Datasets	100K	1M	10M	Steam (optionally)
Sequence Length	100	75	50	

All models use a consistent 1177 MiB of GPU memory, likely due to fixed max length and embedding dimensions.

Model Capacity

Model sizes:

BERT4Rec ~1.37M params (on 1M) xLSTM ~1.37M params (on 1M)

xLSTM large work best for longer sequences 10M, 20M, testing in progress.