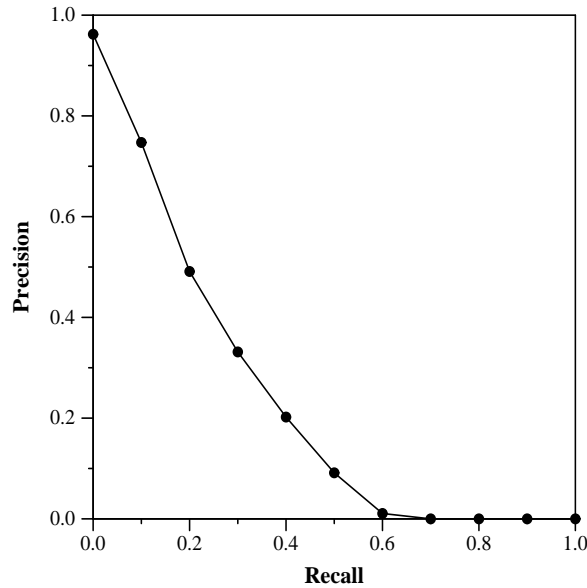
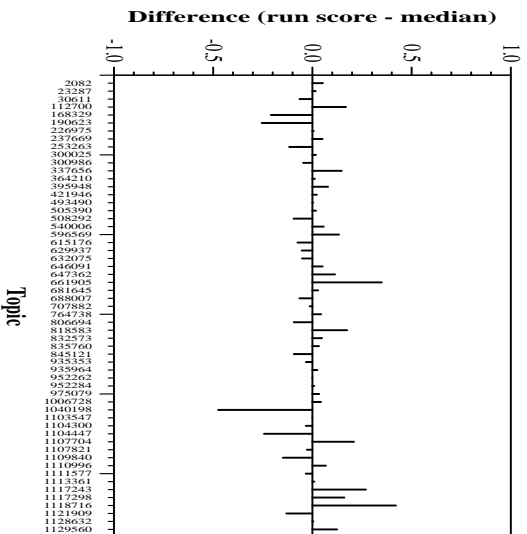


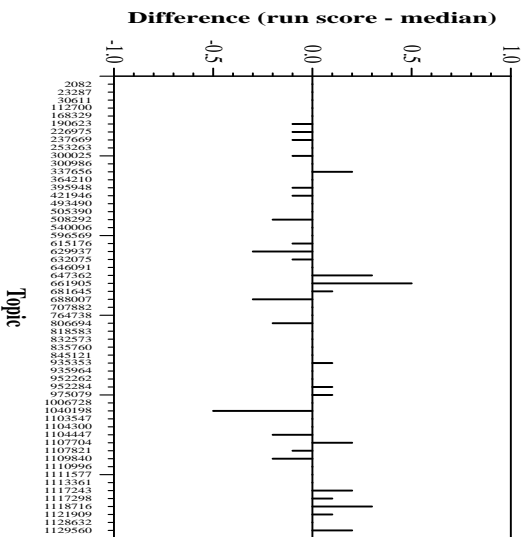
Run Description	
Run ID:	maxp-firstp
Task:	Document Ranking
Subtask:	Full ranking from the collection
Topic type:	Automatic
Single-stage retrieval?	Yes
Dense retrieval?	Yes
Used deep nn model?	Pre-trained model
Type of training:	Previous year's MS MARCO training data
Pre-processing/indexing cost:	The total index time for passage V2 and document segment V2 around around 300 hours in one GPU.
Query processing cost:	We use Faiss-CPU FlapIP (brute force search) with batch 144, thread 36 to conduct end-to-end search. The total run time is around 240 secs.

Overall measures		Document Level Averages	
Number of topics	57		Precision
Total number retrieved	5700	At 5 docs	0.8737
Total relevant	8203	At 10 docs	0.8246
Total relevant retrieved	2042	At 15 docs	0.7415
MAP	0.2278	At 20 docs	0.6816
Mean NDCG@10	0.6709	At 30 docs	0.6018
Mean Reciprocal Rank	0.9436	R-Precision	
		Exact	0.2894

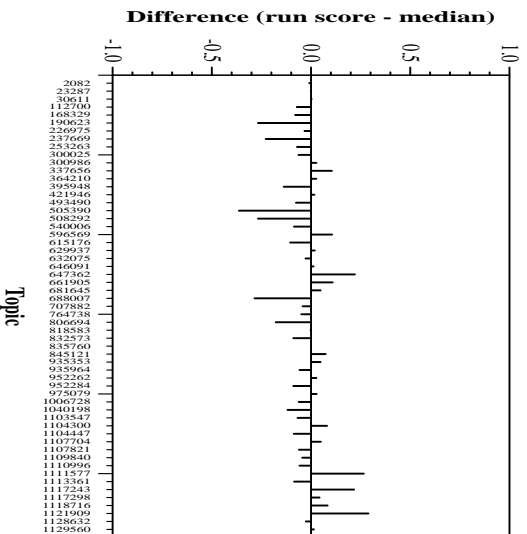




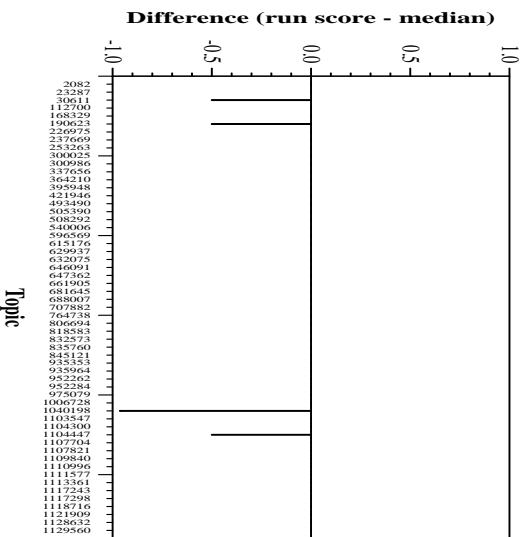
Per-topic difference from median for NDCG@10 for Document Ranking runs



Per-topic difference from median for Prec@10 for Document Ranking runs



Per-topic difference from median for Average Precision for Document Ranking runs



Per-topic difference from median for Reciprocal Rank for Document Ranking runs