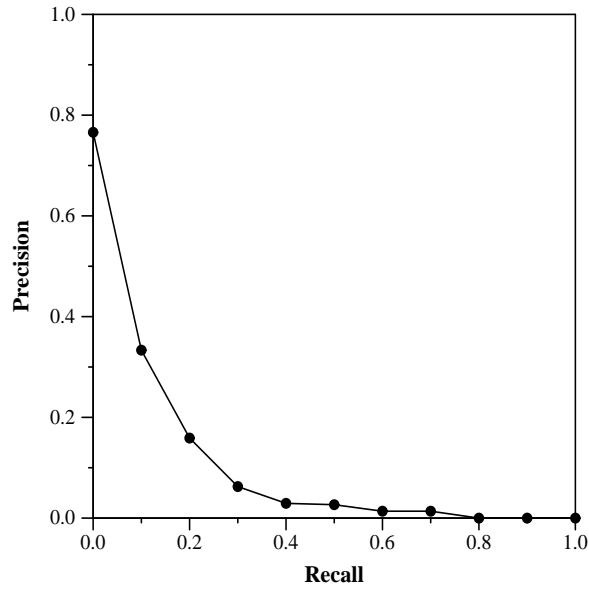
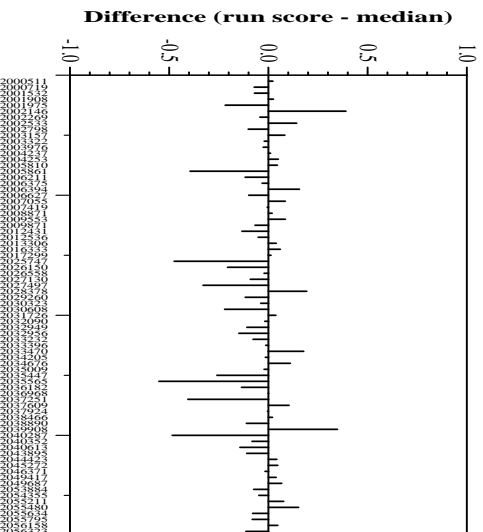


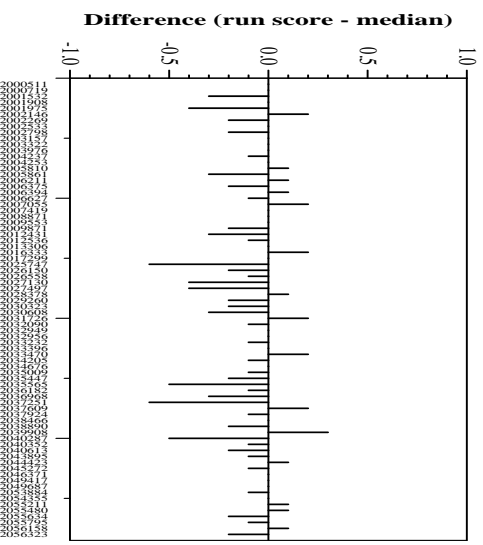
Run Description	
Run ID:	hierarchical_2runs
Task:	Passage Ranking
Subtask:	Reranking the official top 100
Topic type:	Automatic
Single-stage retrieval?	No
Dense retrieval?	Yes
Baseline run?	No
Used deep nn model?	Pre-trained model
Type of training:	This year's MS MARCO training data; Previous year's MS MARCO training data
Training cost:	Only pre-trained models were used
Pre-processing/indexing cost:	No specific process was used
Query processing cost:	All the reranking process (2 models: ms-marco-MiniLM with SBERT and T5) was done at the runtime. No GPU was needed during reranking.

Overall measures		Document Level Averages	
Number of topics	76		Precision
Total number retrieved	6663	At 5 docs	0.4684
Total relevant	4613	At 10 docs	0.3474
Total relevant retrieved	520	At 15 docs	0.2868
MAP	0.0951	At 20 docs	0.2421
Mean NDCG@10	0.4890	At 30 docs	0.1846
Mean Reciprocal Rank	0.7327	R-Precision	
		Exact	0.1349

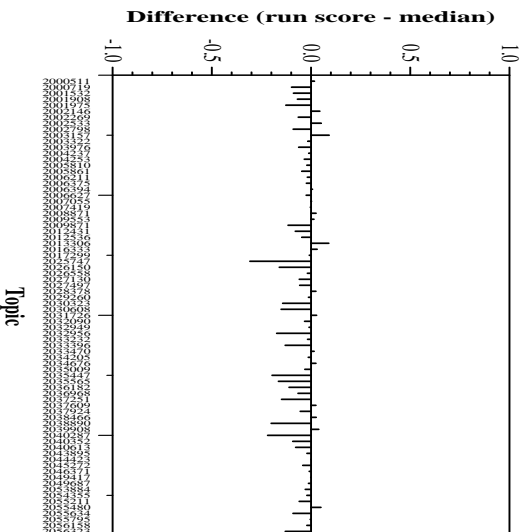




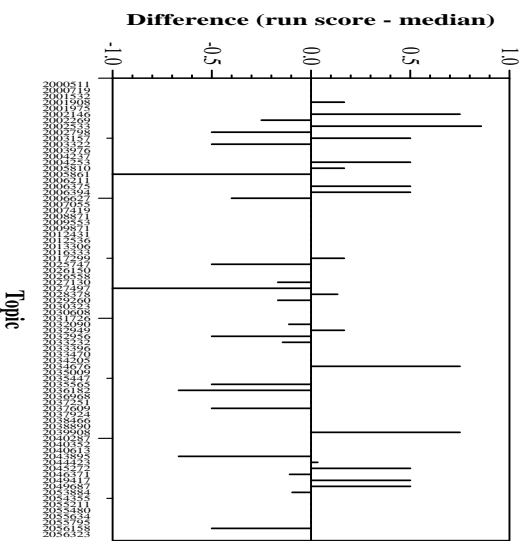
Per-topic difference from median for NDCG@10 for Passage Ranking runs



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



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



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