### Passage-level Evaluation (25 topics)

#### Passage-based Eval Averages

- **Precision**
  - At 5 passages: 0.3419 ± 0.0539
  - At 10 passages: 0.2614 ± 0.0659
  - At 15 passages: 0.2442 ± 0.0748
  - At 20 passages: 0.2229 ± 0.0771
  - At 30 passages: 0.1951 ± 0.0799
  - At 50 passages: 0.1740 ± 0.0914
  - At 100 passages: 0.1396 ± 0.0974

- **F-Score**

#### Character-based Eval Averages

- **Prior**
  - @ 6000 characters: 0.245
  - @ 12000 characters: 0.217
  - @ 24000 characters: 0.196

- **Precision**
  - @ 6000 characters: 0.262
  - @ 12000 characters: 0.235
  - @ 24000 characters: 0.226

- **CharR-Precision**: 0.163

### Document-level Evaluation (45 topics)

#### Hard-rel vs. Soft-rel

- **Total retrieved**: 3894238942
- **Total relevant**: 30263747
- **Total rel. rec.**: 17522215

#### MAP

- Hard-rel: 0.3032
- Soft-rel: 0.2907

#### Document-level Averages

- **Precision**
  - At 5 docs: 0.4444
  - At 10 docs: 0.3822
  - At 15 docs: 0.3363
  - At 20 docs: 0.3111
  - At 30 docs: 0.2770
  - At 100 docs: 0.1651
  - At 200 docs: 0.1142
  - At 500 docs: 0.0653
  - At 1000 docs: 0.0389

- **R-Precision**: 0.3303

### Graphs

- **Difference from median passage-based R-precision per topic**
- **Difference from median for Bprior@12000 characters**

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**Table:**

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**Note:**

- Run ID: hardtrackresults (Chinese Academy of Sciences (Sun))