System Summary and Timing
Organization Name: University of Neuchatel (Switzerland)
List of Run ID's: UniNE1, UniNE2

- Construction of Indices, Knowledge Bases, and other Data Structures
  - Methods Used to build Data Structures
    * Length (in words) of the stopword list: 571 (SMART)
    * Stemming Algorithm: yes Lovins (SMART)
    * Term Weighting: yes lnc for doc; ltc for query
    * Other Techniques for building Data Structures: yes
  - Statistics on Data Structures built from TREC Text
    * Inverted index
      · Run ID : UniNE1, UniNE2
      · Total Storage (in MB): 178.9
      · Total Computer Time to Build (in hours): 2.6
      · Automatic Process? (If not, number of manual hours): yes
      · Use of Term Positions? : no
      · Only Single Terms Used? : yes
    * Other Data Structures built from TREC text
      · Run ID : UniNE2 only
      · Type of Structure: relevance judgments for query #1 to #150
      · Total Storage (in MB): 3.7 MB
      · Total Computer Time to Build (in hours): 0.12
      · Automatic Process? (If not, number of manual hours): yes
      · Brief Description of Method: for each document, we store the identifier of all documents found relevant in a previous request
- Query construction
  - Automatically Built Queries (Ad-Hoc)
    * Topic Fields Used: all
    * Average Computer Time to Build Query (in cpu seconds): 0.5
    * Method used in Query Construction
      · Term Weighting (weights based on terms in topics)? : yes (ltc SMART)
- Searching
  - Search Times
    * Run ID : UniNE1, UniNE2
    * Computer Time to Search (Average per Query, in CPU seconds): 16.1 sec. for UniNE1, 19.3 sec. for UniNE2
  - Machine Searching Methods
    * Vector Space Model? : yes (SMART)
  - Factors in Ranking
    * Term Frequency? : yes

    * Inverse Document Frequency? : yes
    * Other Term Weights? : yes

    * Other: yes
  - Machine Information
    * Machine Type for TREC Experiment: SUN SPARCstation 10 model 51
    * Was the Machine Dedicated or Shared: shared
    * Amount of Hard Disk Storage (in MB): 6,144 MB
    * Amount of RAM (in MB): 128 MB
    * Clock Rate of CPU (in MHz): 50 MHz
  - System Comparisons
    * Amount of "Software Engineering" which went into the Development of the System: 4 months to understand SMART, 3 months to write our additional features in Smalltalk-80
    * Given appropriate resources
      - Could your system run faster? : yes, because Smalltalk is interpreted
      - By how much (estimate)? : the improvement factor is unknown