System Summary and Timing
Organization Name: Australian National University
List of Run ID's: padre1, padre2

- Construction of Indices, Knowledge Bases, and other Data Structures
  - Methods Used to build Data Structures
    - Length (in words) of the stopword list: 0
    - Term Weighting: Not used in data structure building
    - Manually-Indexed Terms? : Removed from collection
  - Statistics on Data Structures built from TREC Text
    - Inverted index
      - Total Storage (in MB): 1248, but note that inverted index was not actually used in submitted runs.
      - Total Computer Time to Build (in hours): 0.025
      - Automatic Process? (If not, number of manual hours): yes
      - Use of Term Positions? : yes
      - Only Single Terms Used? : yes
- Query construction
  - Automatically Built Queries (Ad-Hoc)
    - Topic Fields Used: Unknown
    - Average Computer Time to Build Query (in cpu seconds): Unknown
    - Method used in Query Construction
      - Term Weighting (weights based on terms in topics)? : yes
      - Phrase Extraction from Topics? : yes
      - Automatic Addition of Boolean Connectors or Proximity Operators? : yes
  - Manually Constructed Queries (Ad-Hoc)
    - Topic Fields Used: all
    - Average Time to Build Query (in Minutes): 30
    - Type of Query Builder
      - Computer System Expert: yes - almost no experience with retrieval systems.
      - Other Lexical Tools? : Dictionary, thesaurus, books, spouse, friend who knew names of American restaurants.
    - Method used in Query Construction
      - Term Weighting? : yes, based on perceived importance
      - Boolean Connectors (AND, OR, NOT)? : No
      - Proximity Operators? : Yes
      - Addition of Terms not Included in Topic? : Yes
        I. Source of Terms: Dictionary, thesaurus, books, spouse, friend who new names of American restaurants.
      - Other: Set Operator: Union (related to but not the same as boolean OR)

- Searching
  - Search Times
    - Run ID : padre1
    - Computer Time to Search (Average per Query, in CPU seconds): 38 (elapsed)
  - Search Times
    - Run ID : padre2
    - Computer Time to Search (Average per Query, in CPU seconds): 42
  - Machine Searching Methods
    - Machine Searching Methods
      - Free Text Scanning? : yes
  - Factors in Ranking
    - Factors in Ranking
      - Term Frequency? : yes
      - Inverse Document Frequency? : yes
      - Other Term Weights? : yes, assigned by searcher or generated automatically based on key word and key phrase ranks
      - Proximity of Terms? : yes
      - Document Length? : yes
  - Machine Information
    - Machine Type for TREC Experiment: Fujitsu AP1000
    - Was the Machine Dedicated or Shared: Dedicated
    - Amount of Hard Disk Storage (in MB): 0 on AP1000, data loaded from fileserver over ethernet
    - Amount of RAM (in MB): 8192
    - Clock Rate of CPU (in MHz): 512 x 25 MHz
  - System Comparisons
    - Amount of "Software Engineering" which went into the Development of the System: PADRE was developed from earlier (non-TREC-style) software (FTR) in six weeks (elapsed). FTR was developed intermittently in the author's spare time over 3 years with some help from a vacation student. Total effort on PADRE and ancestors: less than half a person-year.
    - Given appropriate resources
      - Could your system run faster? : yes
      - By how much (estimate)? : factor of 100. PADRE can use inverted files but did not to demonstrate the viability and advantages of full text scanning on a large parallel machine.
    - Features the System is Missing that would be beneficial: Improved query generation methods. More expert manual query generator.