

## AURA TSE

### Text searching technology

**AURA TSE** is one of the most flexible text search engines available. AURA TSE allows lists of data from any source to be loaded and searched, despite spelling errors, incorrect words, and words in the wrong order using unique, patented AURA technology.

#### Introduction

Much of today's data exists as large lists of relatively small text items, addresses, catalogue items, book names, shopping lists, paragraphs in text etc. AURA TSE was developed specifically to meet these needs. AURA TSE out performs all other systems on small text problems as it was designed specifically with these applications in mind.

Typically a user will use a document search engine for these problems; however, these are too large and cumbersome to apply to short text based lists. By optimising its design for these problems AURA TSE is able to deal with more errors within the text faster and with more flexibility than other approaches.

#### The Unique features of AURA TSE are:

- **Format free *startlingly simple* 'one-line' queries**  
The User specifies the items to be searched for using a single text line – with no additional data.
- **Deals with *all* mistakes.**  
Copes with spelling mistakes, incorrect word & number order, missing and added items in queries.
- **Fast loading of *any* data.**  
Any data can be loaded using format free flat file data in seconds.

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#### APPLICATIONS

- **Address look up**
- **Address merge-purge**
- **On-line catalogue searching**
- **Book catalogues**
- **Dictionaries**

#### ● **Unrivalled speed and scalability.**

Works on a few bytes to Tb of data, scalable as your task grows. Maximum *search time is 0.5 seconds on 30M addresses* on a conventional PC.

To achieve these goals the AURA TSE uses unique Patented methods that have been developed over the last 10 years in conjunction with the University of York.

The engine is currently offered as a software library AURA-TSE API for bespoke applications and as a stand alone user-friendly tool (AURA-YDS tool). The tool (shown below) gives access to your data via a simple and effective interface.

## AURA TSE

### Application example – address searching.

The following describes **AURA TSE** application to address data. However, all the claims apply to any other short text data stored in a list. The facilities are available in the **AURA TSE** Tool as well as the software library.

**AURA TSE** is designed to handle address-searching operations better than any existing system and allow users to search any data list. As well as

**AURA TSE** has the unique ability to take completely unstructured queries and search very large databases of addresses or similar lists very rapidly. This allows the user to access data without the need to structure the query data they enter. It also allows for spelling errors, which other comparable systems do not.

It's the openness of **AURA TSE** that gives it great power, being able to load your own data is a major restriction of other address searching tools.

Typical speed is about 0.5 second against the 26 million-address Royal Mail Postal Address File (PAF) database.

**AURA TSE** can load other data from a flat file format; no special formatting of data is required.

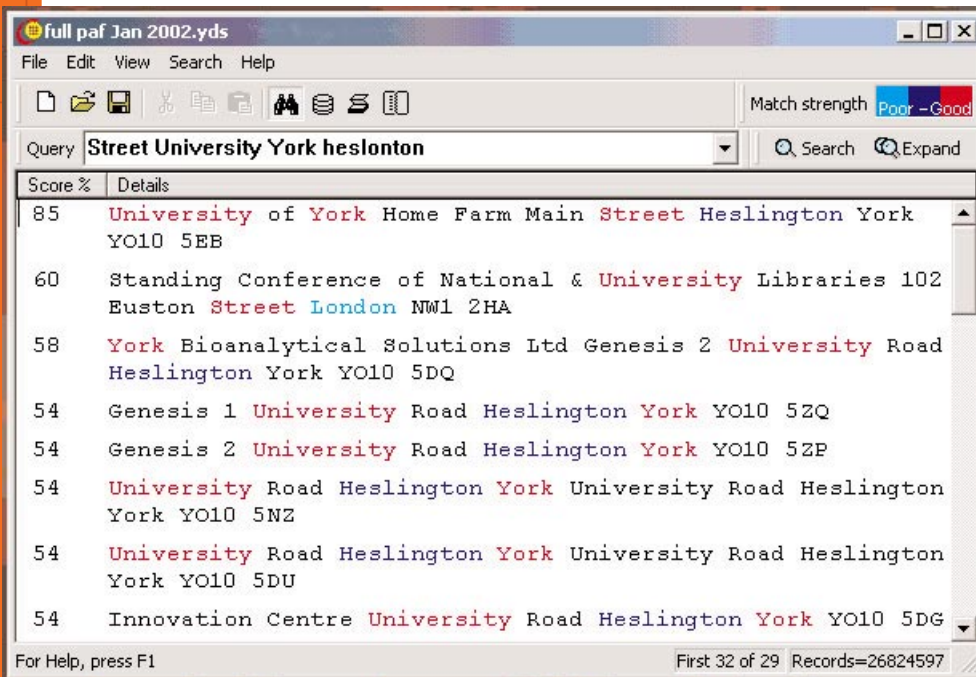
**AURA TSE** is tuned for use on any address or other data file that may be updated or modified frequently. For example, lists of company held addresses as well as postal and addresses from the electoral register.

**AURA TSE** allows users to load and search their own address databases.

In addition, the **AURA TSE** tool has a batch facility to

enable large address datasets to be cleaned.

More detailed information on **AURA TSE** is available on our web site or by contacting us. If you would like to assess the AURA TSE, please contact us ([enquiries@cybula.com](mailto:enquiries@cybula.com)). We will happily supply a demonstration version of the **AURA YDS** Tool.



searching the Royal Mail's Postal Address File (PAF) the system *can be used on your own data*, achieved very simply just by loading data from a flat file\*<sup>1</sup>.

Search on unformatted input, containing spelling mistakes added and deleted characters and words against royal mail postal address file.

Load your own address database, addresses or any data - fast.

Very rapid searching - 0.5 seconds on PAF.

Batch facility for cleaning data sets.

For more information, please contact Cybula at the address below.

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**CYBULA**  
high performance pattern recognition systems