

e-db1

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2001 ff.

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1 Introduction

The tool `e-db1` is an interface to Berkeley DB/1 hashed databases. Such files are used in, e.g., user authentication in Apache (specifically by the `mod_auth_db` module).

Using `e-db1`, one can

- delete entries from a database,
- lookup entries,
- insert or update entries,
- view the entire database.

2 Invocation

The invocation of `e-db1` is very straight-forward: `e-db1` always requires at least two arguments. The first one is an *action*, being one of `delete`, `lookup`, `insert`, or `view`. The second one is the database to process.

Depending on the action, further arguments may be needed. The action `delete` requires a further "key" argument. The entry with the key is looked up and removed.

The action `lookup` also requires a key. The entry with the key is looked up, and its value is shown.

The action `insert` requires two further arguments: a key and a value. A key/value pair is then inserted into (or updated in) the database.

3 Usage with Apache's `mod_auth_db`

To use `e-db1` with databases for Apache's authentication, please observe the following:

- The **key** in all database entries is the username.
- The **value** in the entries must be at least the DES-encrypted password. Optionally, other entries may follow, separated with a colon (:).
- A typical usage of the 'other entries' (that follow the encrypted password) is to insert a group name. This will work if Apache is configured with the `AuthDBUserFile` and `AuthDBGroupFile` pointing to the same database.
- To force Apache and `e-db1` to use the same binary DB1 format, tweaks in Apache's `mod_auth_db` module may be necessary. See e-tunity's package `webserv`.

4 Installation

The simplest way to install `e-db1` is to obtain the RPM `e-db1*rpm` from <http://public.e-tunity.com>. The RPM file is installed by user `root` using `rpm -i rpmfile`.

Alternatively, `e-db1` can be built from source. To build and install `e-db1` from source, simply unpack the distribution archive, `chdir` into the spilled directory, and do a `make install`. The prerequisites for a succesful build are:

- The `e-lib` utility library,
- Small build tools, contained in the package `misc`,
- `db1` support libraries, which must be installed from a distribution CD or other media.