

# geoip egg

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containing most of the useful API procedures for accessing the freely available [GeoIP Standard Country database](#).  
Extension for Chicken Scheme  
Version 1.0.0

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# 1 About this egg

## 1.1 Version history

1.0.0      initial release.

## 1.2 Usage

Load this egg like so:

```
(require-extension geoup)
```

## 2 Documentation

To build this extension, you will need a current version of the [GeoIP C API](#) library installed.

### 2.1 Database operations

Note that it is not necessary to explicitly use the following two procedures for accessing the GeoIP Standard Country database, as all the lookup procedures will use that database by default if no DB argument is given.

`geoiplib:open` [procedure]  
(`geoiplib:open` [FILENAME] [FLAGS])

Opens a GeoIP database with the specified FILENAME and FLAGS, and returns it as a `geoiplib:database` object. With no arguments given, will attempt to open the default `GeoIP.dat` that ships with the GeoIP library. To enable caching, pass one of the following constants in FLAGS:

`GEOIP-STANDARD`

Read database from file system. This is the default and uses the least memory.

`GEOIP-MEMORY-CACHE`

Load database into memory. Faster performance but uses more memory.

`GEOIP-CHECK-CACHE`

Check for updated database. If the database has been updated, reload the file handle and/or memory cache.

`GEOIP-INDEX-CACHE`

Just cache the most frequently accessed index portion of the database, resulting in faster lookups than with `GEOIP-STANDARD`, but less memory usage than `GEOIP-MEMORY-CACHE`. Useful for larger databases such as GeoIP Organization and GeoIP City.

`geoiplib:open-type` [procedure]  
(`geoiplib:open-type` TYPE FLAGS)

Opens a GeoIP database of the specified TYPE from the standard installation location (usually `/usr/local/share/GeoIP/`). The FLAGS are the same as for (`geoiplib:open`), and TYPE can be one of the following constants:

`GEOIP-COUNTRY-EDITION`

`GEOIP-REGION-EDITION-REVO`

`GEOIP-CITY-EDITION-REVO`

`GEOIP-ORG-EDITION`

`GEOIP-ISP-EDITION`

`GEOIP-CITY-EDITION-REV1`

`GEOIP-REGION-EDITION-REV1`

`GEOIP-PROXY-EDITION`

`GEOIP-ASNUM-EDITION`

`GEOIP-NETSPEED-EDITION`

## 2.2 Database information

`geoup:database-available?` [procedure]

(`geoup:database-available?` TYPE)

Determines whether a GeoIP database of the class TYPE has been installed.

`geoup:database-edition` [procedure]

(`geoup:database-edition` [DB])

Returns a constant indicating the type of the specified GeoIP database. When called without an argument, returns the type of the default database.

`geoup:database-info` [procedure]

(`geoup:database-info` [DB])

Returns a string containing information about the specified GeoIP database, including the type and release date. When called without an argument, returns information on the default database.

## 2.3 Country code lookup (2-letter)

`geoup:country-code-by-addr` [procedure]

(`geoup:country-code-by-addr` ADDR [DB])

Looks up a **2-letter ISO 3166-1** country code based on the specified IP address.

`geoup:country-code-by-name` [procedure]

(`geoup:country-code-by-name` NAME [DB])

Looks up a **2-letter ISO 3166-1** country code based on the specified hostname.

## 2.4 Country code lookup (3-letter)

`geoup:country-code3-by-addr` [procedure]

(`geoup:country-code3-by-addr` ADDR [DB])

Looks up a **3-letter ISO 3166-1** country code based on the specified IP address.

`geoup:country-code3-by-name` [procedure]

(`geoup:country-code3-by-name` NAME [DB])

Looks up a **3-letter ISO 3166-1** country code based on the specified hostname.

## 2.5 Country name lookup

`geoup:country-name-by-addr` [procedure]

(`geoup:country-name-by-addr` ADDR [DB])

Looks up a country name based on the specified IP address.

`geoup:country-name-by-name` [procedure]

(`geoup:country-name-by-name` NAME [DB])

Looks up a country name based on the specified hostname.

### 3 Examples

```
(use geoup)
```

```
(geoup:database-available? GEOIP-COUNTRY-EDITION) ; => #t
```

```
(geoup:database-available? GEOIP-ISP-EDITION) ; => #f
```

```
(geoup:database-edition) ; => #\x1 (i.e. GEOIP-COUNTRY-EDITION)
```

```
(geoup:database-info) ; => "GEO-106FREE 20050901 Build 1 Copyright (c) 2005 MaxMind LLC"
```

```
(geoup:country-code-by-name "www.call-with-current-continuation.org") ; => "DE"
```

```
(geoup:country-code-by-addr "194.97.107.133") ; => "DE"
```

```
(geoup:country-code3-by-name "www.google.com") ; => "USA"
```

```
(geoup:country-name-by-name "www.bbc.co.uk") ; => "United Kingdom"
```

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