

Geo IP Location

Introduction

The GeoIP extension allows you to find the location of an IP address. City, State, Country, Longitude, Latitude, and other information as all, such as ISP and connection type can be obtained with the help of GeoIP.

Installing/Configuring

Requirements

This extension requires the GeoIP C library version 1.4.0 or higher to be installed. You can grab the latest version from » <http://www.maxmind.com/app/c> and compile it yourself.

By default, you will only have access to the Free GeoIP Country or GeoLite City databases. While this module can work with other types of database, you must buy a commercial license from » [Maxmind](#).

Installation

This » [PECL](#) extension is not bundled with PHP.

Information for installing this PECL extension may be found in the manual chapter titled [Installation of PECL extensions](#). Additional information such as new releases, downloads, source files, maintainer information, and a CHANGELOG, can be located here: » <http://pecl.php.net/package/geoip>.

Runtime Configuration

This extension has no configuration directives defined in *php.ini*.

Resource Types

This extension has no resource types defined.

Predefined Constants

The constants below are defined by this extension, and will only be available when the extension has either been compiled into PHP or dynamically loaded at runtime.

GEOIP_COUNTRY_EDITION ([integer](#))

GEOIP_REGION_EDITION_REV0 ([integer](#))

GEOIP_CITY_EDITION_REV0 ([integer](#))

GEOIP_ORG_EDITION ([integer](#))

GEOIP_ISP_EDITION ([integer](#))

GEOIP_CITY_EDITION_REV1 ([integer](#))

GEOIP_REGION_EDITION_REV1 ([integer](#))

GEOIP_PROXY_EDITION ([integer](#))

GEOIP_ASNUM_EDITION ([integer](#))

GEOIP_NETSPEED_EDITION ([integer](#))

GEOIP_DOMAIN_EDITION ([integer](#))

The following constants are for net speed:

GEOIP_UNKNOWN_SPEED ([integer](#))

GEOIP_DIALUP_SPEED ([integer](#))

GEOIP_CABLEDSL_SPEED ([integer](#))

GEOIP_CORPORATE_SPEED ([integer](#))

GeolP Functions

geopip_country_code_by_name

geopip_country_code_by_name -- Get the two letter country code

Description

string **geopip_country_code_by_name** (string \$hostname)

The [geopip_country_code_by_name\(\)](#) function will return the two letter country code corresponding to a hostname or an IP address.

Parameters

hostname

The hostname or IP address whose location is to be looked-up.

Return Values

Returns the two letter ISO country code on success, or **FALSE** if the address cannot be found in the database.

Examples

Example #1 - A [geopip_country_code_by_name\(\)](#) example

This will print where the host example.com is located.

```
<?php
$country = geopip_country_code_by_name('www.example.com');
if ($country) {
    echo 'This host is located in: ' . $country;
}
?>
```

The above example will output:

```
This host is located in: US
```

See Also

- [geopip_country_code3_by_name\(\)](#)

- [geoip_country_name_by_name\(\)](#)

geoup_country_code3_by_name

geoup_country_code3_by_name -- Get the three letter country code

Description

string **geoup_country_code3_by_name** (string \$hostname)

The [geoup_country_code3_by_name\(\)](#) function will return the three letter country code corresponding to a hostname or an IP address.

Parameters

hostname

The hostname or IP address whose location is to be looked-up.

Return Values

Returns the three letter country code on success, or **FALSE** if the address cannot be found in the database.

Examples

Example #2 - A [geoup_country_code3_by_name\(\)](#) example

This will print where the host example.com is located.

```
<?php
$country = geoup_country_code3_by_name('www.example.com');
if ($country) {
    echo 'This host is located in: ' . $country;
}
?>
```

The above example will output:

```
This host is located in: USA
```

See Also

- [geoup_country_code_by_name\(\)](#)

- [geoip_country_name_by_name\(\)](#)

geopip_country_name_by_name

geopip_country_name_by_name -- Get the full country name

Description

string **geopip_country_name_by_name** (string \$hostname)

The [geopip_country_name_by_name\(\)](#) function will return the full country name corresponding to a hostname or an IP address.

Parameters

hostname

The hostname or IP address whose location is to be looked-up.

Return Values

Returns the country name on success, or **FALSE** if the address cannot be found in the database.

Examples

Example #3 - A [geopip_country_name_by_name\(\)](#) example

This will print where the host example.com is located.

```
<?php
$country = geopip_country_name_by_name('www.example.com');
if ($country) {
    echo 'This host is located in: ' . $country;
}
?>
```

The above example will output:

```
This host is located in: United States
```

See Also

- [geopip_country_code_by_name\(\)](#)

- [geoip_country_code3_by_name\(\)](#)

geoiP_database_info

geoiP_database_info -- Get GeoIP Database information

Description

string **geoiP_database_info** ([int \$database])

The [geoiP_database_info\(\)](#) function returns the corresponding GeoIP Database version as it is defined inside the binary file.

If this function is called without arguments, it returns the version of the GeoIP Free Country Edition.

Parameters

database

The database type as an integer. You can use the [various constants](#) defined with this extension (ie: GEOIP_*_EDITION).

Return Values

Returns the corresponding database version, or **NULL** on error.

Examples

Example #4 - A [geoiP_region_by_name\(\)](#) example

This will output the current database version string.

```
<?php
print geoiP_database_info(GEOIP_COUNTRY_EDITION);
?>
```

The above example will output:

```
GEO-106FREE 20060801 Build 1 Copyright (c) 2006 MaxMind LLC All Rights
Reserved
```

geoip_db_avail

geoip_db_avail -- Determine if GeoIP Database is available

Description

bool **geoip_db_avail** (int \$database)

The [geoip_db_avail\(\)](#) function returns if the corresponding GeoIP Database is available and can be opened on disk.

It does not indicate if the file is a proper database, only if it is readable.

Parameters

database

The database type as an integer. You can use the [various constants](#) defined with this extension (ie: GEOIP_*_EDITION).

Return Values

Returns **TRUE** is database exists, **FALSE** if not found, or **NULL** on error.

Examples

Example #5 - A [geoip_db_avail\(\)](#) example

This will output the current database version string.

```
<?php
if (geoip_db_avail(GEOIP_COUNTRY_EDITION))
    print geoip_database_info(GEOIP_COUNTRY_EDITION);
?>
```

The above example will output:

```
GEO-106FREE 20080801 Build 1 Copyright (c) 2006 MaxMind LLC All Rights
Reserved
```

geoip_db_filename

geoip_db_filename -- Returns the filename of the corresponding GeoIP Database

Description

string **geoip_db_filename** (int \$database)

The [geoip_db_filename\(\)](#) function returns the filename of the corresponding GeoIP Database.

It does not indicate if the file exists or not on disk, only where the library is looking for the database.

Parameters

database

The database type as an integer. You can use the [various constants](#) defined with this extension (ie: GEOIP_*_EDITION).

Return Values

Returns the filename of the corresponding database, or **NULL** on error.

Examples

Example #6 - A [geoip_db_filename\(\)](#) example

This will output the filename of the corresponding database.

```
<?php
print geoip_db_filename(GEOIP_COUNTRY_EDITION);
?>
```

The above example will output:

```
/usr/share/GeoIP/GeoIP.dat
```

geoip_db_get_all_info

geoip_db_get_all_info -- Returns detailed informations about all GeoIP database types

Description

array **geoip_db_get_all_info** (void)

The [geoip_db_get_all_info\(\)](#) function will return detailed informations as a multi-dimensional array about all the GeoIP database types.

This function is available even if no databases are installed. It will simply list them as non-available.

The names of the different keys of the returning associative array are as follows:

- "available" -- Boolean, indicate if DB is available (see [geoip_db_avail\(\)](#))
- "description" -- The database description
- "filename" -- The database filename on disk (see [geoip_db_filename\(\)](#))

Return Values

Returns the associative array.

Examples

Example #7 - A [geoip_db_get_all_info\(\)](#) example

This will print the array containing all the informations.

```
<?php
$infos = geoip_db_get_all_info();
if (is_array($infos)) {
    var_dump($infos);
}
?>
```

The above example will output:

```
array(11) {
  [1]=>
  array(3) {
    ["available"]=>
    bool(true)
```

```
    ["description"]=>
    string(21) "GeoIP Country Edition"
    ["filename"]=>
    string(32) "/usr/share/GeoIP/GeoIP.dat"
}

[ ... ]

[11]=>
array(3) {
    ["available"]=>
    bool(false)
    ["description"]=>
    string(25) "GeoIP Domain Name Edition"
    ["filename"]=>
    string(38) "/usr/share/GeoIP/GeoIPDomain.dat"
}
}
```

Example #8 - A [geoip_db_get_all_info\(\)](#) example

You can use the various constants as keys to get only parts of the information.

```
<?php
$infos = geoip_db_get_all_info();
if ($infos[GEOIP_COUNTRY_EDITION]['available']) {
    echo $infos[GEOIP_COUNTRY_EDITION]['description'];
}
?>
```

The above example will output:

GeoIP Country Edition

geoip_id_by_name

geoip_id_by_name -- Get the Internet connection speed

Description

int **geoip_id_by_name** (string \$hostname)

The [geoip_id_by_name\(\)](#) function will return the country and region corresponding to a hostname or an IP address.

The return value is numeric and can be compared to the following constants:

- GEOIP_UNKNOWN_SPEED
- GEOIP_DIALUP_SPEED
- GEOIP_CABLEDSL_SPEED
- GEOIP_CORPORATE_SPEED

Parameters

hostname

The hostname or IP address whose net speed is to be looked-up.

Return Values

Returns the net speed.

Examples

Example #9 - A [geoip_id_by_name\(\)](#) example

This will output the net speed of the host example.com.

```
<?php
$netspeed = geoip_id_by_name('www.example.com');

echo 'The connection type is ';

switch ($netspeed) {
    case GEOIP_DIALUP_SPEED:
        echo 'dial-up';
```

```
        break;
    case GEOIP_CABLEDSL_SPEED:
        echo 'cable or DSL';
        break;
    case GEOIP_CORPORATE_SPEED:
        echo 'corporate';
        break;
    case GEOIP_UNKNOWN_SPEED:
    default:
        echo 'unknown';
    }
?>
```

The above example will output:

The connection type is corporate

geoip_isp_by_name

geoip_isp_by_name -- Get the Internet Service Provider (ISP) name

Description

string **geoip_isp_by_name** (string \$hostname)

The [geoip_isp_by_name\(\)](#) function will return the name of the Internet Service Provider (ISP) that an IP is assigned to.

This function is currently only available to users who have bought a commercial GeoIP ISP Edition. A warning will be issued if the proper database cannot be located.

Parameters

hostname

The hostname or IP address.

Return Values

Returns the ISP name on success, or **FALSE** if the address cannot be found in the database.

Examples

Example #10 - A [geoip_isp_by_name\(\)](#) example

This will print the ISP name of host example.com.

```
<?php
$isp = geoip_isp_by_name('www.example.com');
if ($isp) {
    echo 'This host IP is from ISP: ' . $isp;
}
?>
```

The above example will output:

```
This host IP is allocated to: ICANN c/o Internet Assigned Numbers Authority
```

geoip_org_by_name

geoip_org_by_name -- Get the organization name

Description

string **geoip_org_by_name** (string \$hostname)

The [geoip_org_by_name\(\)](#) function will return the name of the organization that an IP is assigned to.

This function is currently only available to users who have bought a commercial GeoIP Organization, ISP or AS Edition. A warning will be issued if the proper database cannot be located.

Parameters

hostname

The hostname or IP address.

Return Values

Returns the organization name on success, or **FALSE** if the address cannot be found in the database.

Examples

Example #11 - A [geoip_org_by_name\(\)](#) example

This will print to whom the host example.com IP is allocated.

```
<?php
$org = geoip_country_code_by_name('www.example.com');
if ($org) {
    echo 'This host IP is allocated to: ' . $org;
}
?>
```

The above example will output:

```
This host IP is allocated to: ICANN c/o Internet Assigned Numbers Authority
```

geoip_record_by_name

geoip_record_by_name -- Returns the detailed City information found in the GeoIP Database

Description

array **geoip_record_by_name** (string \$hostname)

The [geoip_record_by_name\(\)](#) function will return the record information corresponding to a hostname or an IP address.

This function is available for both GeoLite City Edition and commercial GeoIP City Edition. A warning will be issued if the proper database cannot be located.

The names of the different keys of the returning associative array are as follows:

- "country_code" -- Two letter country code (see [geoip_country_code_by_name\(\)](#))
- "region" -- The region code (ex: CA for California)
- "city" -- The city.
- "postal_code" -- The Postal Code, FSA or Zip Code.
- "latitude" -- The Latitude as signed double.
- "longitude" -- The Longitude as signed double.
- "dma_code"
- "area_code" -- The PSTN area code (ex: 212)

Parameters

hostname

The hostname or IP address whose record is to be looked-up.

Return Values

Returns the associative array on success, or **FALSE** if the address cannot be found in the database.

Examples

Example #12 - A [geoip_record_by_name\(\)](#) example

This will print the array containing the record of host example.com.

```
<?php
$record = geoip_record_by_name('www.example.com');
if ($record) {
    print_r($record);
}
?>
```

The above example will output:

```
Array
(
    [country_code] => US
    [region] => CA
    [city] => Marina Del Rey
    [postal_code] =>
    [latitude] => 33.9776992798
    [longitude] => -118.435096741
    [dma_code] => 803
    [area_code] => 310
)
```

geoiP_region_by_name

geoiP_region_by_name -- Get the country code and region

Description

array **geoiP_region_by_name** (string \$hostname)

The [geoiP_region_by_name\(\)](#) function will return the country and region corresponding to a hostname or an IP address.

This function is currently only available to users who have bought a commercial GeoIP Region Edition. A warning will be issued if the proper database cannot be located.

The names of the different keys of the returning associative array are as follows:

- "country_code" -- Two letter country code (see [geoiP_country_code_by_name\(\)](#))
- "region" -- The region code (ex: CA for California)

Parameters

hostname

The hostname or IP address whose region is to be looked-up.

Return Values

Returns the associative array on success, or **FALSE** if the address cannot be found in the database.

Examples

Example #13 - A [geoiP_region_by_name\(\)](#) example

This will print the array containing the country code and region of the host example.com.

```
<?php
$region = geoiP_region_by_name('www.example.com');
if ($region) {
    print_r($region);
}
```

```
?>
```

The above example will output:

```
Array
(
  [country_code] => US
  [region] => CA
)
```