User manual

get_time utility (ubuntu & window)

version : 2.0

Date : 07-10-2020

Content

1. Introduction:

Given utility can display time from different timezone. Timezone can be given by command line or via config file .

Utility works on both ubuntu and windows.

2. Point to note

For Windows

- Download Mingw from links belows, and then install GCC and MAKE package.

http://www.mingw.org/

- Then install **Windows terminal** from windows store for running application .

3. Setup:

First need to download source code, which is linked below.

git clone https://github.com/shubha7007/Project_1.git

or

Download source code from link below and unzip it.

https://github.com/shubha7007/Project_1.git

- Enter the project directory

cd project_1

For Windows App use **mingw32-make** and **mingw32-make clean** instead of **make** and **make clean** for the commands given below:

- Build the project by giving command below.

make

- If any issue are there, give below command

make clean

make

4. Running the setup

4.1 Taking parameters from command line

To get time based on command line argument enter:

./get_time –s server_ip -z zone –f format

eg :   **./get_time –s 66.151.147.38 –z Asia/Kolkata –f 1**

output:

2020-09-30   17:12:07

server_ip   :   ntp server ip address

Zone   :   timezone id

Format   :   format to display time based on user input, its value is given below

user input		format
1	-->	YYYY-MM-DD HH:MM:SS
2	-->	YY-MM-DD HH:MM:SS
3	-->	YYYY-Month-DD, HH:MM:SS <AM/PM>
4	-->	HH:MM:SS DD Month YYYY

4.2)   Taking parameters from config file

To get time based on config file enter:

./get_time

Output:

2020-09-30   15:20:07

Here parameters will be taken for config file:- config.h

Config.h is present in ./include directory

Config file example:

NTP_IP=66.151.147.38

ZONE=UTC

FORMAT=1

NTP_IP   :   ntp server ip

ZONE   :   timezone id

FORMAT :   format

user input		format
1	-->	YYYY-MM-DD HH:MM:SS
2	-->	YY-MM-DD HH:MM:SS
3	-->	YYYY-Month-DD, HH:MM:SS <AM/PM>
4	-->	HH:MM:SS DD Month YYYY

5. Useful Links

- To get different Timezone for Ubuntu Application
  https://en.wikipedia.org/wiki/List_of_tz_database_time_zones

- To get different Timezone for Windows Application
  https://docs.microsoft.com/en-us/cpp/c-runtime-library/reference/tzset?view=vs-2019
  https://en.wikipedia.org/wiki/List_of_time_zone_abbreviations