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Subject: How to get TimeZone

Posted by [forlano](#) on Thu, 04 Jun 2020 14:07:54 GMT

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Hello,

do we have a way to get the TimeZone from the local running computer?  
Otherwise I must ask the user to input it.

Thanks,  
Luigi

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Subject: Re: How to get TimeZone

Posted by [forlano](#) on Thu, 04 Jun 2020 18:33:29 GMT

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I needed that function to get the UTC offset. Perhaps I could have better formulated the question.  
Online I found this program that does the trick (tested in Windows with CLANG)

```
#include <iostream>
```

```
int time_offset()
```

```
{ // reference:
```

```
  // https://stackoverflow.com/questions/13804095/get-the-time-zone-gmt-offset-in-c
```

```
  time_t gmt, rawtime = time(NULL);
```

```
  struct tm *ptm;
```

```
#if !defined(WIN32)
```

```
  struct tm gbuf;
```

```
  ptm = gmtime_r(&rawtime, &gbuf);
```

```
#else
```

```
  ptm = gmtime(&rawtime);
```

```
#endif
```

```
  // Request that mktime() lookup dst in timezone database
```

```
  ptm->tm_isdst = -1;
```

```
  gmt = mktime(ptm);
```

```
  return (int)difftime(rawtime, gmt);
```

```
}
```

```
int main(int argc, const char *argv[])
```

```
{
```

```
  printf("UTC offset = %d\n", time_offset()/3600);
```

```
}
```

In my case (Italy) it gives the correct answer.  
It seems those function automatically take into account the DST :roll:  
I hope to not be in a case where a hour is missing.

Luigi

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