

Archived:How to read GPS data in PySymbian

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All [PySymbian](#) articles have been archived. PySymbian is no longer maintained by Nokia and is not guaranteed to work on more recent Symbian devices. It is not possible to submit apps to Nokia Store.

This code snippet explains how to use the `positioning` module to get information from an internal or external [GPS](#) module in [PySymbian](#).

Prerequisites

Get a GPS lock at least once before using this code to maximize efficiency.

Code

```
import e32, appuifw, positioning

def gps_init():
    #This function will start the updating of global variable (dictionary) 'gps_data' every
    0.2 sec.
    #0.2 sec comes form 'interval = 200000' set according to your needs
    #This function uses callback funtion gps
    global gps_data
    #First this fills the gps_data with 0.0 so that there is something before the first gps
    update
    gps_data = {
        'satellites': {'horizontal_dop': 0.0, 'used_satellites': 0, 'vertical_dop': 0.0,
        'time': 0.0, 'satellites': 0, 'time_dop': 0.0},
        'position': {'latitude': 0.0, 'altitude': 0.0, 'vertical_accuracy': 0.0, 'longitude':
        0.0, 'horizontal_accuracy': 0.0},
        'course': {'speed': 0.0, 'heading': 0.0, 'heading_accuracy': 0.0, 'speed_accuracy':
        0.0}
    }
    try:
        positioning.select_module(positioning.default_module())
    positioning.set_requestors([{"type": "service", "format": "application", "data": "gps_app"}])
    positioning.position(course=1, satellites=1, callback=gps, interval=200000, partial=0)
    e32.ao_sleep(3)
    except:
        appuifw.note(u'Problem with GPS', 'error')

def gps(event):
    global gps_data
    gps_data = event

def gps_stop():
    #This function stops GPS
    try:
        positioning.stop_position()
    except:
        appuifw.note(u'Problem with GPS', 'error')
```

```
#Testing
gps_init()
count = 0
while True:
    count = count + 1
    sat = gps_data['satellites']['used_satellites']
    pos_lat = gps_data['position']['latitude']
    pos_long = gps_data['position']['longitude']
    speed = gps_data['course']['speed']
    print count, sat, pos_lat, pos_long,speed
    e32.ao_sleep(1)
```