Archived:How to read GPS data in PySymbian

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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')
```


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```
#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)
```


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