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#!/usr/bin/env python
# startup.py
# start scope, set location, time, gps, calibrate
# mb, 05/2007
#-----
import os
import serial
import time
from LX200gps import *
from time import gmtime, strftime

SCOPE_ON = 1
twrite = 2.0
WIN = 1
DEBUG = 0

if(WIN):
    #check this number in the device manager AFTER you plug the usb2serial cable
    #the correct port num is the reported number-1...
    port = 6    #COM4, 7
    print "running windows - serial com with port ", port , "\n"
else:
    port = "/dev/ttyUSB0"
    print "we are on LINUX with: ", port

#-----
#>>TIME + DATE<<
#format HH:MM:SS ("16:54:40"), and MM/DD/yy ('06/29/07')
#-----
utc_offset = -2
ntime = strftime("%H:%M:%S")
kdate = strftime("%m/%d/%y", gmtime())
print "today's time: " , ntime
print "today's date:", kdate
#-----
#>>START<<
serialobject = start_telescope(port)
time.sleep(1)
#-----
#set UTC offset
set_UTC_offset(serialobject, utc_offset)
returned_utc_offset = get_UTC_offset(serialobject)
print "utc offset is: ", returned_utc_offset
#set time and date
set_time(serialobject, ntime)
set_date(serialobject, kdate)
#get time and date
nntime = get_time(serialobject)
ndate = get_date(serialobject)

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print "scope's time: " , nntime
print "telescope date is:", ndate
time.sleep(2)
#-----
#>>LOCATION<<
#changed 25th July, TEST IT !!!
siteList = []
#sitenum = 0 #0,1,2,3
#1: Toronto, 0: Zurich -> make sure these are entered manually...
sitename = 'Zurich'
#get the complete list and make sure the one you want is there.
siteList = get_sites(serialobject)
print "list of sites: ", siteList
#get the index
sitenum = siteList.index(sitename)
#select it
select_site(serialobject, sitenum)
print "selected site and sitenum is:", sitename, sitenum
time.sleep(2)
#-----
#>>ALIGNMENT + GPS
set_gps(serialobject, 1)
#set the alignment mode
mode = "altaz"
set_alignment(serialobject, mode)
#check the alignment
checkedmode = get_alignment(serialobject)
print "set alignment is: ", checkedmode
time.sleep(2)
#-----
#>>FINISH<<
finished = stop_telescope(serialobject)
raw_input("calibrate sensors, then align with 2 stars...hit a key...")
#-----
```