

```
#!/usr/bin/python

import socket
import sys
import sqlite3

try:
    s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
except socket.error as err:
    print ("socket creation failed with error %s" %(err))

port = 15471

try:
    host_ip = socket.gethostbyname('ecos-0008fc50')
    # print ("host_ip: ", host_ip)
except socket.gaierror:
    print ("there was an error resolving the host")
    sys.exit()

#print ("ECoS detected at", host_ip)

s.connect((host_ip, port))

#print ("the socket has successfully connected to ECoS:")

#Cleanup ECoSdata.db
dbconnect = sqlite3.connect("ECoSdata.db");
dbconnect.row_factory = sqlite3.Row;
dbconnect.text_factory = str;
```

```
cursor = dbconnect.cursor();
cursor.execute('DELETE FROM Locotable where locid <> " ');
dbconnect.commit();
```

```
#Query ECoS - number of locs
message = bytes('queryObjects(10, size)', 'utf-8')
#print ('message: ', message)
```

```
try:
    s.sendall(message)
except socket.error:
    print ('send failed')
    sys.exit()
#print ('Message sent successfully')
```

```
reply = s.recv(1024)
```

```
startpos = int(reply.find(b '['))
endpos = int(reply.find(b ' '))
```

```
antal = reply[startpos+1:endpos]
max = int(antal)
print ("Antal loks i Ecos: ", max)
```

```
i = 0
while i < max:
    i_char = str(i)
    m_start = "queryObjects(10, nr["
    m_end = "], name, addr,protocol)"
    message = bytes(m_start+i_char+" "+i_char+m_end,'utf-8')
```

```

s.sendall(message)

reply=s.recv(1024)

locid = reply[reply.find(bytes("name[" , 'utf-8')) - 5:reply.find(bytes("name[" , 'utf-8')) -1]

id_char = str(locid, 'utf-8')

name_rest = reply[5 + reply.find(bytes("name[" , 'utf-8')):]

addr_rest = reply[5 + reply.find(bytes("addr[" , 'utf-8')):]

prot_rest = reply[9 + reply.find(bytes("protocol[" , 'utf-8')):]

name_end = reply[5 + reply.find(bytes("name[" , 'utf-8')):].find(bytes("]", 'utf-8'))

addr_end = reply[5 + reply.find(bytes("addr[" , 'utf-8')):].find(bytes("]", 'utf-8'))

prot_end = reply[9 + reply.find(bytes("protocol[" , 'utf-8')):].find(bytes("]", 'utf-8'))

name_wq = name_rest[:name_end]

name_char = str(name_wq, 'utf-8')

addr_char = str(addr_rest[:addr_end], 'utf-8')

prot_char = str(prot_rest[:prot_end], 'utf-8')

print ("locid:", id_char, "name:", name_char, "addr:", addr_char, "protocol:", prot_char)

```

```

dbconnect.row_factory = sqlite3.Row;

cursor = dbconnect.cursor();

cursor.execute("INSERT INTO Locotable VALUES (?, ?, ?, ?)", (id_char, name_char, addr_char, prot_char));

i = i + 1

```

```

dbconnect.commit();

#execute simple select statement

cursor.execute('SELECT * FROM Locotable');

#print data

for row in cursor:

    print(row['locid'],row['name'],row['addr'], row['protocol'] );

#close the connection

dbconnect.close();

sys.exit()

```