IP[y]: Notebook (/tree/) Data Analysis (autosaved)

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Ipython Notebook for Data Analysis

This ipython notebook shows how to analyze tabulated data from a text file. It does the following:

- Open the file and read it
- Select data from one day only
- Read the data and time
- Plot it

In [27]:
```
import os
import time
%pylab inline
```

```
Populating the interactive namespace from numpy and matplotlib
```

In [28]:
```
print(os.listdir('.')) # to find the file names
filename = '2016-07_DataLog24.txt'
```

```
['.ipynb_checkpoints', '2016-07_DataLog24.txt', '2016-07_DataLogDisplay.tx
t', 'Data Analysis.ipynb', 'Workbook1.xlsx', '~$Workbook1.xlsx']
```

In [29]:
```
lines = [s for s in file(filename) if '07-22' in s]
lines[:3]
```

Out[29]:
```
['16-07-22 00:00:05\t-1\t-1\t-1\t-1\n',
 '16-07-22 00:01:04\t-1\t-1\t-1\t-1\n',
 '16-07-22 00:02:04\t-1\t-1\t-1\t-1\n']
```

In [35]:
```
light = []
for l in lines:
    s=l.split('\t')[2]
    light.append(float(s))

figure(figsize=(20,10))
#plot(light)
semilogy(light)
```