
UploadTimer Documentation

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SRC PACKAGE

1.1 Submodules

1.2 src.timer module

Track and predict how long an Amazon Cloud upload is going to take.

class `src.timer.TimeIt` (*nfiles=100*)

Bases: `object`

Create a time-tracking object.

upload_data

list – Measurements of file number uploads.

time_data

list – Measurements of the current system time when each upload measurement was taken.

nfiles

int – The total number of files to be uploaded.

add_to_dataset (*file_number=None*)

Record a measurement of current file being uploaded and a timestamp.

Returns True if successful, False otherwise.

plot_it (*poly=2, **kwargs*)

Plot data and estimated upload completion time.

Parameters

- **poly** (*int*) – Degree of polynomial for fit.
- ****kwargs** – Keyword arguments for `matplotlib.pyplot.axes.plot`.

Returns True if successful, False otherwise.

read_time_data (*init=0, file_path='data/timestamps.txt'*)

Return a list that holds the timestamps.

Parameters

- **init** (*int*) – Flag for whether to start from scratch and ignore any saved previous measurements (set True if desired).
- **file_path** (*str*) – Path for the timestamps file.

Returns List for holding upload data measurements.

Return type *time_data* (list)

read_upload_data (*init=0, file_path='data/uploads.txt'*)

Return a list that holds the number of files being uploaded.

Parameters

- **init** (*int*) – Flag for whether to start from scratch and ignore any saved previous measurements (set True if desired).
- **file_path** (*str*) – Path for the uploads file.

Returns List for holding upload data measurements.

Return type *upload_data* (list)

time_data_to_dec (*time_data*)

Retrieve the timestamps, including a decimal version for calculations.

Returns

Floats of seconds since start of epoch.

Return type *time_data_dec* (numpy.ndarray)

write_time_data (*file_path='data/timestamps.txt'*)

Write the timestamps to a file.

Parameters **file_path** (*str*) – Path for the timestamps file.

Returns True if successful, False otherwise.

write_upload_data (*file_path='data/uploads.txt'*)

Write the upload data to a file.

Parameters **file_path** (*str*) – Path for the uploads file.

Returns True if successful, False otherwise.

1.3 Module contents

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