Jupyter Pager 2/1/17, 10:51 AM

Filename: /Users/wujung/code/ooi_sonar/concat_raw_output.py

```
Line #
           Mem usage
                          Increment
                                        Line Contents
    24
            14.8 MiB
                             0.0 MiB
                                        def concat_raw(data_path,fname_all,date_wanted):
    25
    26
                                             # Index the files in the wanted date range
    27
            15.2 MiB
                             0.4 MiB
                                             raw_file_times = [FILE_NAME_MATCHER.match(os.path.join(data_path,x)) for x in fname_all];
                                             # idx = [x for x in range(len(X)) if X[x].group('Date')=-'20150912'] # solution 1
date_list = map(lambda x: x.group('Date'),raw_file_times) # if in python 3 need to do list(map()) to conver
time_list = map(lambda x: x.group('Time'),raw_file_times)
    28
                             0.0 MiB
    29
             15.2 MiB
                            0.0 MiB
    30
            15.2 MiB
    31
    32
            15.2 MiB
                             0.0 MiB
                                             if len(date wanted) == 1:
    33
                                                  idx_date = [i for i,dd in enumerate(date_list) if dd==date_wanted] # solution 2
                                             elif len(date_wanted)==2:
    34
             15.2 MiB
                             0.0 MiB
    35
            15.2 MiB
                             0.0 MiB
                                                  idx_date = [i for i,dd in enumerate(date_list) if dd>=date_wanted[0] and dd<=date_wanted[-1]] # solutic</pre>
                                             else:
    36
    37
                                                  print 'Invalid range: date_wanted!'
                                                  idx date = []
    38
    40
             15.2 MiB
                             0.0 MiB
                                             if len(idx_date)!=0:
                                                  if time_list[idx_date[0]] > '000000': # if midnight was recorded in the previous file
    41
            15.2 MiB
                             0.0 MiB
    42
                                                      idx_date.insert(0,idx_date[0]-1)
    43
    44
                                                  # Read first file for initialization
                                                  particle_data, data_times, power_data_dict, freq, bin_size, config_header, config_transducer = \
           338.2 MiB
                          323.0 MiB
                                                      parse_echogram_file(os.path.join(data_path,fname_all[idx_date[0]]))
    47
          1477.7 MiB
                         1139.5 MiB
                                                  data_mtx = get_data_mtx(power_data_dict,freq)
    48
                                                  # print 'original size is ' + str(\{k: v.shape for (k,v) in power_data_dict.items()\}) # freq = frequencies.value() # get freuqency values # freq = \{k: str(int(v/1E3))+'k' for (k,v) in frequencies.items()\} # get frequencies
    49
    50
    51
                                                  for fnum in idx_date[1:]:
    print '===== Processing file: ' + fname_all[fnum]
    53
          1477.7 MiB
                             0.0 MiB
    54
          1478.4 MiB
                             0.7 MiB
                                                       # Read next file
    55
                                                      290.3 MiB -1188.1 MiB
    56
                                                                                                                          = parse echogram file(os.path.join(data pa
           318.1 MiB
                           27.8 MiB
           164.9 MiB
                         -153.2 MiB
                                                      data_mtx = np.concatenate((data_mtx,data_mtx_tmp),axis=1)
    59
    60
                                             else:
                                                  print 'date wanted does not exist!'
    61
```

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