~/singlepowder_test/parameters.txt

```
# line with only comment

pixel_width          0.120
pixel_height         0.120
centre_pixel_x       258.0
centre_pixel_y       266.0
angle_min            5.0
angle_max            60.0
step                 0.05

image_list_filename  list.txt
data_directory       TD015S001apex004/
mask_filename        new_mask.txt
output_format        detailed
output_filename      output.txt
```

~/singlepowder_test/list.txt

```
# filename        twotheta      theta        chi    detectordistance    scantime      weight
TD015S001apex004_01_0001.out    0.000000     0.000000     0.000000     80.000000      60.000000     1.000000
TD015S001apex004_02_0001.out    0.000000     0.000000     10.000000    80.000000      60.000000     0.984808
TD015S001apex004_03_0001.out    0.000000     0.000000     20.000000    80.000000      60.000000     0.939693
TD015S001apex004_04_0001.out    0.000000     0.000000     30.000000    80.000000      60.000000     0.866025
TD015S001apex004_05_0001.out    0.000000     0.000000     40.000000    80.000000      60.000000     0.766044
TD015S001apex004_06_0001.out    0.000000     0.000000     50.000000    80.000000      60.000000     0.642788
TD015S001apex004_07_0001.out    0.000000     0.000000     60.000000    80.000000      60.000000     0.500000
TD015S001apex004_08_0001.out    0.000000     0.000000     70.000000    80.000000      60.000000     0.342020
TD015S001apex004_09_0001.out    0.000000     0.000000     80.000000    80.000000      60.000000     0.173648
```

~/singlepowder_test/TD015S001apex004/TD015S001apex004_01_0001.out

```
FORMAT :       86
VERSION:       13
HDRBLKS:       15
TYPE    :ROTATION
SITE    :APEXSERVER
MODEL   :MACH3 [541-22-02] with KAPPA [50.006]
USER    :bruker
SAMPLE  :
SETNAME:
RUN     :       0
```

```
   17   30    4    4    3    4    4    4    4    3
    3    3    4    4    3    4    4    4    4    3
    4    4    4    3    4    4    4    4    4    3
    4    4    4    4    4    4    4    4    4    4
    3    3    4    4    5    4    4    4    4    4
    4    4    4    4    4    4    4    4    4    4
    4    4    4    3    3    3    4    4    4    4
    4    4    4    4    4    4    4    4    4    4
```