~/singlepowder_test/parameters.txt

```
# parameter file for singlepowder

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/
output filename        output.txt
output_format          standard
```

~/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
```