This exe consists of Normal Filter, our algorithm--"GPF", as well as UPSAMPLE. Hence, the users should first adjust parameters of Normal Filter and UPSAMPLE by checking the paper EAR (Edge-aware point set resampling).
The video "instruction for exe.mp4" shows how to use our EXE program.

Important tips when using our exe:
1. Shortcut keys
"ctrl+wheel" = change point size (i.e., for rendering)
"shift+wheel" = change Down Sample number (i.e., tune the number of downsampled points, given one point cloud input)
2. Test data
The folder "data+para" gives two simple examples with recommended parameters for each step. *The input of this EXE is .ply format*.
3. System requirements
32bit: QT4 + MSVC2010
64bit: QT5 + MSVC2013 [if you cannot successfully run our exe, you may need to install QT5 (5.5 or other versions) and replace the four .dll files (Qt5Core, Qt5Gui, Qt5OpenGL, Qt5Widgets) with your installed corresponding .dll]

Notice that there are two versions of this EXE program, i.e., 32bit and 64bit. Please be aware of this when comparing runtime.

If you have other questions, please contact Dr. Lu at xuequanlu@ntu.edu.sg OR xuequanlu@zju.edu.cn

Please cite our paper:
@ARTICLE{Lu2018,
author={X. Lu and S. Wu and H. Chen and S. K. Yeung and W. Chen and M. Zwicker},
journal={IEEE Transactions on Visualization and Computer Graphics},
title={GPF: GMM-Inspired Feature-Preserving Point Set Filtering},
year={2018},
volume={24},
number={8},
pages={2315-2326},
keywords={Gaussian mixture model;Geometry;Noise measurement;Robustness;Surface reconstruction;Three-dimensional displays;GPF;feature preserving;gaussian mixture model;point set filtering},
doi={10.1109/TVCG.2017.2725948},
ISSN={1077-2626},
month={Aug},}