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Contents:
Python wrapper for Lourakis’ sparse bundle adjustment C library

Enjoy! The most recent version can be obtained from bitbucket via:

```
hg clone ssh://hg@bitbucket.org/devangel77b/python-sba
```

New in version 1.6.8

Dylan Ray added a bunch of things.

Typical usage

The main way to use this is as follows:

```
import sba

cameras = sba.Cameras.fromTxt('cams.txt')
points = sba.Points.fromTxt('pts.txt', cameras.ncameras)
newcams, newpts, info = sba.SparseBundleAdjust(cameras, points)
```

If you wish to alter the default and autodetected options, you can create an Options object and change it, and then pass it to sba:

```
options = sba.Options.fromInputs(points, cameras)
# can also update options.XXX to appropriate values
newcams, newpts, info = sba.SparseBundleAdjust(cameras, points, options)
```

Hopefully this is cleaner than the original way to call it in C.
Contributors

The original sba C library was written by Manolis Lourakis and is described in Lourakis, Manolis I A and Antonis A Argyros (2004), “The design and implementation of a generic sparse bundle adjustment software package based on the Levenberg-Marquardt algorithm”, FOURTH ICS TR-340.

Thanks also to

Manolis Lourakis and Antonis Argyros, Ty Hedrick, Evan Bluhm, my mom and the academy
CHAPTER 2

sba Package

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