ISIS Planetary Geodesy Software

(formerly RAND/USGS Planetary Geodesy (RUPG) Software)

Randlsq Program mm Measurement Input File Format

File: ISIS-PG-FMT503.doc, .pdf, or .asc

Version: 2006.08.10

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File input:

Group 1 ("nmea" records):

Name	Columns	Format	Description (units).
Imageid	1-12	A12	Image identification. Usually flight data sequence (FSC) or similar image number (unitless).
Focallength	13-27	F15.5	Camera focal length (mm).
Pointid	30-36	2X,A7	Point identification (unitless).
X measure	37-51	F15.5	X measurement of point on image (mm).
Y measure	52-66	F15.5	Y measurement of point on image (mm).

Sample (from Clementine solution, file "zmea.dat"):

```
=>  15730757       90.15000  Clerke        -1.32251        1.00051<=
```

Notes:

1. "nmea" is the number of line/sample measurements of tie points. See the "Solution Parameterization" file (format "ISIS-PG-FMT531.doc") for input of this.
2. A comment may appear after column 66 (e.g. a text comment or information on the pixel measurements).
3. Lines beginning with the character "#" will eventually be treated as comments.
4. Earlier versions of *randlsq* for non-lunar solutions used 5 character control point names, but all solutions now use 7 character names.

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Reference: Model, program, and format generally follow that specified in:

Colvin, Tim R. (1992). "Photogrammetric Algorithms and Software for Spacecraft Optical Imaging Systems," _ A RAND NOTE _, N-3330-JPL.

Note that the original format indicates the use of 5 character control point names.

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Document History:

Begun 2006.08.10 by B. Archinal, based on RUPG-FMT5002.doc.

Modifications:

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(End of document.)