



Bugs: dmimgpick

Bugs

1. *Non-square input images (30 Mar 2007)*
(Linux and Mac OS X platforms)

If the input image is not square, `dmimgpick` exhibits a problem related to how the tool checks if the pixel being "picked" is outside the image.

While the tool will sometimes fail with a segmentation fault, it may also silently produce incorrect results for non-square images on these platforms.

Here are the conditions which trigger the bug. Knowing that

- ◆ (x_0, y_0) is the starting pixel location (e.g. bottom left corner in ds9)
- ◆ $xlen$ is the number of columns
- ◆ $ylen$ is the number of rows
- ◆ (x, y) are the coordinates in the input table for each row

if $ylen > xlen$

all (x, y) where $y > (y_0 + xlen)$ will have NaNs instead of being joined to correct values

if $ylen < xlen$

all (x, y) where $y > (y_0 + ylen) \ \&\& \ y < (y_0 + xlen)$ will access random memory and will result in random results including but not limited to the possibility of crashing

Bugs: dmimgpick – CIAO 3.4