Subject: Re: New Image Processing Routines
Posted by David Fanning on Fri, 24 Feb 2006 21:08:41 GMT
View Forum Message <> Reply to Message

J.D. Smith writes:

> 2. The ASINCH scaling, which is linear at the low end, and logarithmic
> at the high end (which is about perfect for showing noise properties and
> high contrast features all at once). Robert Lupton wrote such a beast
> in IDL already:
>
> http://cheops1.uchicago.edu/idlhelp/sdssidl/plotting/tvasinh .html
>
> His website links to a little paper describing the method (which has
> some very nice properties, but occasionally produces strange-looking
> images:
>
> http://www.astro.princeton.edu/~rhl/PrettyPictures/
>
> The trick will be coming up with an easier way to set the 2 parameters
> required that affect the scaling.

OK, sports fans. Here are two new programs. I have
to admit, with the right images (low signal to noise)
this inverse hyperbolic sine function is GREAT!
I can't wait to try this out on images with the new
CCD camera we just got for the school.

ASINHSCL -- Like BYTSCL and IMGSCL, but for images
with "asinh magnitudes" ala Lupton, et. al.

XSTRETCH_ASINH -- Like XSTRETCH, but with ASINH
scaling instead of gamma scaling. GUI front
end for ASINHSCL.

Found in the usual places. Normal images can look
a little weird, as JD suggests. Astronomers and
people with bad photographic skills will probably
find these programs useful. :-)

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/