Posted by rlayberry on Mon, 07 Apr 2008 10:25:27 GMT View Forum Message <> Reply to Message On 5 Apr, 17:19, "George N. White III" <aa...@chebucto.ns.ca> wrote: > On Fri, 4 Apr 2008, rlaybe...@hotmail.com wrote: >> Does anybody have a summary of the major differences between R and >> idl? I have been using idl for years and have never used R. I >> understand R is statistics orientated, but does it do anything that >> idl can't or does it do it better? > > I use both IDL and R. The biggest advantage of R in my work is that > it provides NA values that are distinct from NaN. Most operations > have an na.rm option, e.g. > mean(c(1,2,3,NA),na.rm=FALSE) returns NA, but > mean(c(1,2,3,NA),na.rm=TRUE) returns 2 > > I've never been a fan of overloading NaN as a missing data value: > a) it can't be applied to integer data, b) there are times when > you need to know the difference between a computational error > and missing inputs. I've spent way to much of my life coding tests for > missing value flags, so I really appreciate a language that properly supports NA values. > > > R has very solid plotting capabilities, but tends to bog down > when working with images. R (like Matlab, unlike IDL) tends to > coerce everything to doubles for calculations, but (unlike Matlab and > IDL) checks for NA add significant overhead for big calculations. > R is an implementation of the S-plus language. It has a large, active > user community. R is widely available and has a nice system to manage > packages (which are generally provided as binaries on Windows, sources on *X). > > In my work I often use IDL to extract data (e.g., time-series) from remote sensing images and then use R to analyse the resulting data sets. > > George N. White III <aa...@chebucto.ns.ca> Thanks very much for both responses. I have found them very useful.

Russ

Subject: Re: idl and R