Subject: Re: IDL 8 Operator Overloading and Error Tracking
Posted by Michael Galloy on Mon, 20 Dec 2010 05:11:44 GMT

On 12/18/10 9:04 PM, mankoff wrote:
> I haven't used IDL 8 but am wondering if the operator overloading
> would support automatic tracking via hidden variables. Could a class
> (is that the right term?) be written so the following code is
> supported?
>
> x = randomu(seed, 10)
> y = randomu(seed, 10)
> z = x + y
> plot, z
>
> ;; and then, due to operator overloading:
> plot, z.err
> ;; or
> print, !z.err
> ;; or
> print, z_err
>
> Where errors are initially tracked as per a standard (or customizable)
> function for +-/*^e and log() operators, and supports extensions or
> hooks to add support for additional functions (system, and user) such
> as "z = smooth(x,3)" and "my_pro, x^2, z"
>
> This would be a nice feature.

This would be fairly easy for the overloaded operators such as +-/*^.
Operations, like system routines exp, alog10, etc., would require using
a wrapper that would call the underlying routine and then also handle
the error computation.

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