
Subject: Re: Plea for IDL 2000 (was: a plea for more reliable mathematical routines)
Posted by [ushomirs](#) on Sat, 18 Sep 1999 07:00:00 GMT
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well, i knew i'd be in for some flames when i wrote this, so heck, bring 'em on.

but seriously, you do NOT need to convince me that IDL it is useful. I've been using it for ..pause to count.. well, since 1991. not continuously of course, there have been periods of order months when i just haven't needed it. i've used it for processing satellite data (GOES, YOHKOH, DMSP), but most recently for crunching though the output of my simulations and making publication-quality plots.

and yes, i instructed my advisor to buy idl, not the other way around. in fact, my department has 50 licenses now.

it's just that the number of hoops one has to jump through to get a decent (publication-quality) plot out of idl is tremendous. for example, you can say `device,font_size=12` when in postscript mode to request 12pt fonts. but if you stack 2 plots on a page with `!p.multi`, you won't get 12pt fonts, but something much smaller? so you have to go back and screw around with `charsize` keywords. i can name a gazzilion things like that. in fact, there's not a single element of the plot that i don't end up doing by hand (including placing axis captions, etc). what's the point in having a `PLOT` command if i basically have to do everything by hand?? i don't have time for that...

as far as developing idl as a "hack". i'm sure none of the original code Stern wrote at LASP is in idl. that would be property of University of Colorado, he wouldn't be able to sell that commercially. Just like netscape people had to rewrite netscape from scratch, without using any of the mosaic code. So i don't see how unsound programming practices that would have been acceptable in a prototype could pass in a real, shipping product. a product that costs many times more than microsoft office. and boy, does Microsoft get major flak for bugs in their stuff!

the story is that in astronomy (my field) idl has become one of the de-facto standards (god, it's a lesser evil than IRAF). there's tons of data reduction software written in IDL. stuff that has been tested and works. so many people's sense is that, while idl has many shortcomings, using something different to replace it would take a while to get up to speed. now, since we don't program for programming sense, but only to get scientific results, it's easier to deal with all the quirks than start fresh.

SO while my original complaint about bad documentation for LSODE started this big flame war, nobody even bothered to take on my second question,

how the heck do i call an IDL function from an external (linkimage or
dln) module??

greg

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