Subject: IDL subroutine improvements
Posted by wbiagiot on Wed, 21 Apr 1999 07:00:00 GMT
View Forum Message <> Reply to Message

To all,

This is a really small issue. I'm just wondering if anyone else has
submitted an improvement to an existing IDL subroutine to RSI and seen it
incorporated into a subsequent version of IDL? A while back I submitted
(what I considered to be) a significant speed enhancement to the cross
correlate and auto correlate functions with only minor modifications. My
benchmarks were showing me about a 60%+ speed improvement (which is important
if your code is constantly banging on these functions, like mine was). I had
to convince the rep over a couple of emails what the advantage/improvement
was.

Anyway, was just wondering. BTW, if anyone wants these two functions, just
drop me a line. Maybe DF or RK would consider another subsection for their
sites - user-optimized IDL routines (same functionality).

-Bill B.

------------== Posted via Deja News, The Discussion Network ==----------
http://www.dejanews.com/   Search, Read, Discuss, or Start Your Own

Subject: Re: IDL subroutine improvements
Posted by David Foster on Thu, 22 Apr 1999 07:00:00 GMT
View Forum Message <> Reply to Message

wbiagiot@suffolk.lib.ny.us wrote:
>
> To all,
>
> This is a really small issue. I'm just wondering if anyone else has
> submitted an improvement to an existing IDL subroutine to RSI and seen it
> incorporated into a subsequent version of IDL? A while back I submitted
> (what I considered to be) a significant speed enhancement to the cross
> correlate and auto correlate functions with only minor modifications. My
> benchmarks were showing me about a 60%+ speed improvement (which is important
> if your code is constantly banging on these functions, like mine was). I had
> to convince the rep over a couple of emails what the advantage/improvement
> was.
>

Some time ago I had an ongoing argument with some of the folks in
technical support about their EXTRACT_SLICE.PRO routine. They claim

that with it you can extract "any" 2D slice from a 3D data-set
by defining angles of rotation etc. Problem is, the routine does
not deal with "exchange-of-axis" rotations well at all; if one of
your rotations is near 90 degrees, the resulting slice will NOT
be what you might expect.

I finally got one of the tech support people to agree that my
point was valid, that the documentation was misleading, and that
the routine did not give you what you might expect. But the author
of that routine denied the limitation, and to this date
the routine has not been changed (I wrote my own).

I had also informed them about a problem with SEARCH3D() in IDL 5,
in which choosing a boundary element would give *very* unpredictable
results. I don't believe this has been fixed either.

Just my .02.

Dave

--

~~~~~~ ~~~~~~
   David S. Foster   Univ. of California, San Diego
    Programmer/Analyst   Brain Image Analysis Laboratory
   foster@bial1.ucsd.edu Department of Psychiatry
    (619) 622-5892   8950 Via La Jolla Drive, Suite 2240
                   La Jolla, CA 92037
~~~~~~ ~~~~~~

Subject: Re: IDL subroutine improvements
Posted by davidf on Sun, 25 Apr 1999 07:00:00 GMT
View Forum Message <> Reply to Message

Bii B. (wbiagiot@suffolk.lib.ny.us) writes:

> Anyway, was just wondering. BTW, if anyone wants these two functions, just
> drop me a line. Maybe DF or RK would consider another subsection for their
> sites - user-optimized IDL routines (same functionality).

I would be more than happy to host optimized programs on
my web page. The only issue for me is that the programs
have a documentation header consistent with my other
programs, so that I can make the HTML help file that
goes with the programs. (You can use the template.pro
program found in the IDL52/examples/misc directory.)

A short paragraph concerning what the program does and

how it is different from the RSI-supplied program would
also be appreciated. :-)

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting
Phone: 970-221-0438 E-Mail: davidf@dfanning.com
Coyote's Guide to IDL Programming: http://www.dfanning.com/
Toll-Free IDL Book Orders: 1-888-461-0155