
Subject: Re: are routines from numerical recipes available in IDL?

Posted by [landsman](#) on Tue, 08 Jun 1999 07:00:00 GMT

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In article <375CD151.C1C11016@gwdg.de>,

unolte@gwdg.de wrote:

> Hi,
>
> does anyone know if these numerical recipes routines
> are available in IDL/PV-Wave:
>
> brent, f1dim, indexx, linmin, mnbrak, powell.

I try to keep track of which Numerical Recipes procedures are available either internally in IDL or as external IDL procedures in the README file at <ftp://idlastro.gsfc.nasa.gov/pub/pro/math>

1. POWELL is an intrinsic IDL procedure
2. The algorithms in brent and mnbrak are implemented, respectively, in the IDL procedures MINF_PARABOLIC and MINF_BRACKET in the FTP site mentioned above
3. I believe that for indexx one can simply use the IDL SORT function, which returns the sorted index array. But if are really sorting several arrays, and including secondary sorts, then you might want to use BSORT at the above FTP site, which -- unlike the intrinsic IDL SORT function -- maintains the original subscript order for equal values.
4. I don't know about existing IDL implementations of f1dim or linmin but these short programs seem fairly easy to implement in IDL.

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