
Subject: Re: NML for the Connoisseur

Posted by [David McClain](#) on Wed, 29 Mar 2000 08:00:00 GMT

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BTW the only thing that IDL/PVWave do nicer are the advanced graphics. But the sources include an RPC connection to IDL for just that purpose. Otherwise, the base language of NML is far easier to use and much more CONSISTENT!

- DM

David McClain <dmcclain@azstarnet.com> wrote in message
news:se49uo3jead12@corp.supernews.com...

> Dear OCaml Enthusiasts,

>

> It has been stewing for more than a year now, a continuing work in progress,

> but it is high time that I release a matured copy of the code and sources to

> the world. NML (Not ML, Numeric Modeling Language, Numeric ML, Nearly ML,

> ...) is an interactive, dynamically typed, tail pure, compiled (to native

> code closures) functional language, whose syntax closely follows that of

> OCaml, but where all math operations are overloaded and vectorized on real

> and complex data in the form of lists, vectors, multidimensional arrays,

> tuples, etc.

>

> It has proven itself in the field for the past 9 months. Numerous samples

> are included with the sources, including a translation of Norvig's Prolog

> interpreter (just a toy... but it shows the power of NML for non-numeric

as

> well as numeric problems). NML is very fast!!! on large array-based

> problems, and is reasonably fast on non-numeric problems (probably not as

> efficient as OCaml) but certainly a lot easier to code interactively at

the

> command line (no type inferencing and no type checking... hence inherently

> unsafe).

>

> The application and its sources presently runs on Win/NT 4.0 and Linux.

But

> the Linux port has been ignored for the past 5 months. It produces very nice

> looking graphics, 2-D data plots, pseudo-color image displays, and shaded

> surface plots. It is shareware in the sense of the OCaml license, and a

> request that acknowledgement be given to the original authors. Source

> consists of about 28K lines of OCaml, and 10K lines of supporting C/C++

> code.

>

> You can find more about it at

> <http://www.azstarnet.com/~dmcclain/nmlpromo.html>
> and the zipped sources and NML.exe at
> <http://www.azstarnet.com/~dmcclain/nml.zip> (1100 KB).
>
> Many thanks to Xavier and the others at INRIA for their wonderful language
> system!!
>
> - D. McClain, Sr. Scientist
> Raytheon Systems Co.
> Tucson, AZ
>
>
>
