Subject: Re: NaN in pv-wave
Posted by Dr. Dirk Engelbart on Thu, 25 Feb 1999 08:00:00 GMT
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jlh wrote:
>
> Hi,
>
> In IDL the expression for NaN (Not a Number) is :
> !values.f_nan. Does anyone know if there is an equivalent expression
> in pvwave ?
>
> Thanks,
>
> Jacob

Jacob,

Trying to do various translation tasks between WAVE and IDL, I recently had the same question as you. The answer is simple as you will see below. You simply need to have the IMSL mathematics package being standard in PV-WAVE Advantage. This package includes the function MACHINE() which can be used as follows:

values = MACHINE(/Float)
; Get the single-precision, floating-point machine constants. This call supplies a ;structure whose elements might be inspected ba calling values using the /STRUCTURE keyword. One of the elements of values will then be "values.nan"!

info,values,/STRUCTURE

; As an example for the data assignment of variables look at the following line which assigns a 3-element vector "a" using the intended "NaN" as well as additionally negative-infinite values.

a = [values.nan,3.0,values.neg_inf]

This means in PV-WAVE you can use exactly the same function as in IDL "!values.f_nan" by calling the function "values.nan".

That's it.
Regards,

DIRK.

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