Subject: Re: VALUE_LOCATE and NaNs
Posted by Jeremy Bailin on Thu, 25 Oct 2012 15:05:13 GMT
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On 10/25/12 9:48 AM, Fab wrote:
> On 10/25/2012 03:41 PM, Kai Muehlbauer wrote:
>>
>> I can confirm:
>>
>> IDL> print, !VERSION
>> { x86_64 linux unix linux 7.1.1 Aug 21 2009 64 64}
>>
>> IDL> data = FINDGEN(10) & data[0] = !VALUES.F_NAN
>> IDL> p = VALUE_LOCATE(LINDGEN(10), data) & print, p[0]
>> -1
>> % Program caused arithmetic error: Floating illegal operand
>> IDL>
>>
>> Cheers,
>> Kai
>>
>
> At least the answer is right, but the warning is there ;-)
> So three different behaviours of value locate with three input types:
>
> IDL> data = FINDGEN(10) & data[0] = !VALUES.F_NAN
> IDL> p = VALUE_LOCATE(INDGEN(10), data) & print, p[0]
> 0
> % Program caused arithmetic error: Floating illegal operand
> IDL> p = VALUE_LOCATE(LINDGEN(10), data) & print, p[0]
> -1
> % Program caused arithmetic error: Floating illegal operand
> IDL> p = VALUE_LOCATE(FINDGEN(10), data) & print, p[0]
> -1
>
>

I agree with Craig - there is no well-defined answer for what VALUE_LOCATE should return when faced with a NaN. But it also shouldn't give different answers depending on the type of location array.

-Jeremy.