Subject: Re: help needed in timegen
Posted by Dick Jackson on Fri, 30 Dec 2016 01:33:26 GMT
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On Wednesday, 28 December 2016 20:22:46 UTC-8, gunvi...@gmail.com wrote:
> On Wednesday, December 28, 2016 at 9:42:54 PM UTC+5:30, Jim P wrote:
>> On Wednesday, December 28, 2016 at 4:37:36 AM UTC-7, fawltyl...@gmail.com wrote:
>>> On Wednesday, December 28, 2016 at 11:10:06 AM UTC+1, sid wrote:
>>>> Hi all,
>>>>
>>>> I have given below what I have done.
>>>>
>>>> print,julday(10,22,2014,14,00,32),format='(g)'
>>>> 2456953.083703704
>>>>
>>>> mytimes=timegen(1,units='seconds',step_size=14,start=2456953 .083703704)
>>>>
>>>>
>>>> The idea is to get julian at this date/time
>>>> 10,22,2014,14,00,32 and
>>>>
>>>> 14 second after this, that is at 10,22,2014,14,00,46
>>>>
>>>> I expect the result to be 2456953.083865741.
>>>>
>>>> But If I do
>>>> print, mytimes
>>>> 2456953.0
>>>>
>>>> Please anybody let me know how to resolve this.
>>>>
>>>> thanks
>>>
>>> IDL> mytimes=timegen(2,units='seconds',step_size=14,start=2456953 .083703704d)
>>> IDL> print, mytimes, format='(D20.10)'
>>> 2456953.0837037046
>>> 2456953.0838657417
>>>
>>> regards,
>>> Lajos
>>
>> If you have IDL 8.5 or later, the new "implied print" syntax helps you get around the default formatting of the standard PRINT behavior.
>>
>> First option, simply type the variable name at the prompt.
>>
>> IDL> mytimes
>> 2456953.0837037046 2456953.0838657417

>>
>> This is the same as using PRINT with the /IMPLIED keyword.
>>
>> IDL> print, mytimes, /implied
>>   2456953.0837037046   2456953.0838657417
>>
>> The keyword can be unambiguously abbreviated to "/i":
>>
>> IDL> print, mytimes, /i
>>   2456953.0837037046   2456953.0838657417
>>
>> There's less typing involved than with an explicit FORMAT string. (But also see the new C-style formatting in IDL 8.6.)
>>
>> Jim P.
>
> But if I need to get the values in the variable itself without printing, then what should I do,
>
> Because I am going to use the variable in a loop, I want the variable mytimes to have value with 2456953.083703704 format.

The result from TIMEGEN does indeed have the precise values you want, it's just that if you 'print, mytimes' it is only *displaying* to eight digits of precision. Does that clear it up for you?

Cheers,
-Dick

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