
Subject: Re: Time conversion

Posted by [R.Bauer](#) on Wed, 17 Jan 2001 17:18:33 GMT

[View Forum Message](#) <> [Reply to Message](#)

Kelly Dean wrote:

>
> I have several NetCDF files with the time listed as seconds since
> 1970-1-1 0:00:00 GMT. Are there any routines in IDL that will convert
> this number to Month, Day, Year, Hour, Minute, and Seconds?
>
> Example: 816134420 (Nov 12 1995)
>
> Kelly Dean
> CSU/CIRA

Our timeformat is based on seconds since 2000-01-01 00:00:00 UTC. This definition of Julian Seconds was first developed by Ray Sterner (JHUASPL). You will be able to use our and Rays formatting routines if you add the offset first to these numbers.

http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_source/idl_html/dbase/download/js2string.tar.gz

```
; NAME:  
; js2string  
;  
; PURPOSE:  
; This function converts JulianSeconds to a string, works with array  
input  
;  
; CATEGORY:  
; TIME  
;  
; CALLING SEQUENCE:  
; Result= JS2STRING(Julsec)  
;  
; INPUTS:  
; Julsec: double  
;  
; OUTPUTS:  
; Result: string or string array depending input  
;  
; KEYWORD PARAMETERS:  
; YEAR2:      2 digit year
```

```

; NO_LEADING_ZERO: no leading zero at all positions
; NOW: returns actual time instead of input time
; FORMAT: string to format the output:
; 'ICG' = 'Y-M-D H:M:S MS'
; 'XLS' = 'D.M.Y H:M:S'
; 'M-D'
; 'H:M'
; 'H:M:S'
; 'Y-M-D'
; 'M-D-Y'
; 'YMDHMS'
;
;
; EXAMPLE:
; IDL> x= js2string(-12345678D, FORM='y-m-d h:m:s') & PRINT, x
; 1999-08-11 02:38:42
; IDL> x= js2string(-12345678D, FORM='y_m_d_h_m') & PRINT, x
; 1999_08_11_02_38
; IDL> x= js2string(-12345678D, /STR) & HELP, x, /STR
; ** Structure <f27108>, 8 tags, length=64, refs=1:
; YEAR STRING '1999'
; MONTH STRING '08'
; DAY STRING '11'
; WDAY STRING 'Wednesday'
; HOUR STRING '02'
; MIN STRING '38'
; SEC STRING '42'
; MSEC STRING '000'

```

For further routines and licensing please look at

http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.html

--

R.Bauer

Institut fuer Stratosphaerische Chemie (ICG-1)
 Forschungszentrum Juelich
 email: R.Bauer@fz-juelich.de

=====

a IDL library at Forschungszentrum Juelich
http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.html

<http://www.fz-juelich.de/zb/text/publikation/juel3786.html>
