
Subject: Re: Time conversion

Posted by [Liam E. Gumley](#) on Tue, 16 Jan 2001 22:01:12 GMT

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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)

Here's the first place I'd look:

<http://fermi.jhuapl.edu/s1r/idl/s1rlib/time/time.html>

Cheers,

Liam.

<http://cimss.ssec.wisc.edu/~gumley>

Subject: Re: Time conversion

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

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- > 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

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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>

Subject: Re: Time conversion

Posted by [Kelly Dean](#) on Thu, 18 Jan 2001 16:51:31 GMT

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Thanks for your suggestions....

However, I found what I was looking for. Using the search engine on the U of W Astronomy IDL Page, I found that Paul Ricchiazzi already developed an IDL routine - ARMbasetime.pro - that converted the number of seconds since Jan 1, 1970 00:00:00 UTC into yy, mm, dd, and hh. Very useful.....

Also, I discovered that William Weibel from UCLA developed some handy NetCDF routines that proved to be useful with extracting the values from the NetCDF files.

Kelly

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