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Subject: Re: sec\_to\_dt has gone missing!  
Posted by [David Foster](#) on Thu, 29 Oct 1998 08:00:00 GMT  
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David Fanning wrote:

```
>
> Nigel Wade (nmw@ion.le.ac.uk) writes:
>
>> In the documentation for IDL 5.1 the function SEC_TO_DT is mentioned.
>> When I try to use it, it doesn't exist.
>
> Mine works:
>
> IDL> print, sec_to_dt(100000)
> % Compiled module: SEC_TO_DT.
> % Compiled module: IDLDT__DEFINE.
> % Compiled module: DT_ADD.
> % Compiled module: JUL_TO_DT.
> % Compiled module: CALDAT.
> % Compiled module: VAR_TO_DT.
> % Compiled module: JULDAY.
> { -4713 1 2 15 46 40.0000 2.1574074 0}
>
> IDL> print, !version
> { x86 Win32 Windows 5.1.1 Jul 20 1998}
```

Mine is broken:

```
IDL> print, sec_to_dt(100000)
% Variable is undefined: SEC_TO_DT.
% Execution halted at: $MAIN$
IDL> print, !version
{ sparc sunos unix 5.1 Apr 13 1998}
IDL>
```

Dave

--

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~~~~~  
David S. Foster      Univ. of California, San Diego  
Programmer/Analyst    Brain Image Analysis Laboratory  
foster@bial1.ucsd.edu   Department of Psychiatry  
(619) 622-5892      8950 Via La Jolla Drive, Suite 2240  
                        La Jolla, CA 92037  
~~~~~

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**Subject:** Re: sec\_to\_dt has gone missing!  
**Posted by** [davidf](#) **on** Thu, 29 Oct 1998 08:00:00 GMT  
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Note: A copy of this article was e-mailed to the original poster.

Nigel Wade ([nmw@ion.le.ac.uk](mailto:nmw@ion.le.ac.uk)) writes:

> In the documentation for IDL 5.1 the function SEC\_TO\_DT is mentioned.  
> When I try to use it, it doesn't exist.  
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> I've searched the installation directories and can find no mention of  
> this function anywhere except in the documentation.  
>  
> Does it really exist? Has anyone got it in their distribution?

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```

```
IDL> print, !version
{ x86 Win32 Windows 5.1.1 Jul 20 1998}
```

Cheers,

David

---

-----  
David Fanning, Ph.D.  
Fanning Software Consulting  
E-Mail: [davidf@dfanning.com](mailto:davidf@dfanning.com)  
Phone: 970-221-0438, Toll-Free Book Orders: 1-888-461-0155  
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

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**Subject:** Re: sec\_to\_dt has gone missing!  
**Posted by** [Nigel Wade](#) **on** Fri, 30 Oct 1998 08:00:00 GMT  
[View Forum Message](#) <> [Reply to Message](#)

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David Fanning wrote:

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> Note: A copy of this article was e-mailed to the original poster.  
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>  
> IDL> print, !version  
> { x86 Win32 Windows 5.1.1 Jul 20 1998}

This is significant ^^^^^

>  
> Cheers,  
>  
> David  
>  
> -----  
> David Fanning, Ph.D.  
> Fanning Software Consulting  
> E-Mail: [davidf@dfanning.com](mailto:davidf@dfanning.com)  
> Phone: 970-221-0438, Toll-Free Book Orders: 1-888-461-0155  
> Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

I guess someone forgot to include it in 5.1.

I've just downloaded 5.1.1 and it is in there.

Nigel Wade, System Administrator, Space Plasma Physics Group,  
University of Leicester, Leicester, LE1 7RH, UK  
E-mail : nmw@ion.le.ac.uk  
Phone : +44 (0)116 2523568, Fax : +44 (0)116 2523555

Subject: Re: sec\_to\_dt has gone missing!  
Posted by [Kevin Ivory](#) on Fri, 30 Oct 1998 08:00:00 GMT  
[View Forum Message](#) <> [Reply to Message](#)

```
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> David Fanning wrote:  
>> Mine works:  
David Foster wrote:  
> Mine is broken:
```

It is complete and working in IDL 5.1.1 for Linux, so I'll simply attach a copy of the file (the code is only a few lines) to the end of this message.

Kevin

Kevin Ivory Tel: +49 5556 979 434  
Max-Planck-Institut fuer Aeronomie Fax: +49 5556 979 240  
Max-Planck-Str. 2 mailto:Kevin.Ivory@linmpi.mpg.de  
D-37191 Katlenburg-Lindau, GERMANY http://www.gwdg.de/~kivory2/

----- cut here -----  
;\$Id: sec\_to\_dt.pro,v 1.1 1998/04/27 22:08:38 slett Exp \$  
;  
;  
; Copyright (c) 1997-1998, Research Systems, Inc. All rights reserved.  
; Unauthorized reproduction prohibited.  
FUNCTION SEC\_TO\_DT, seconds, Base=base, Date\_fmt=date\_fmt  
;+  
; NAME:  
; SEC\_TO\_DT  
;  
;  
;  
;  
; PURPOSE:  
; Convert time from seconds-since-base to an IDLDT structure  
;  
;  
;  
;  
; CATEGORY:  
; MISC

```
; ;  
;  
; CALLING SEQUENCE:  
;   result = SEC_TO_DT( seconds)  
;  
;  
; INPUTS:  
;   seconds: a floating point scalar, giving the number of seconds  
;   elapsed from the base date.  
;  
;  
; OPTIONAL INPUTS:  
;  
;  
;  
;  
; KEYWORD PARAMETERS:  
;   BASE: A keyword in string format (see STR_TO_DT), giving the  
;   base date. The default value is calculated from !DT_BASE.  
;   (Please see IDLDT__DEFINE for a description of !DT_BASE)  
;  
;   Date_Fmt: An integer indicating the format of the BASE keyword.  
;   (Please see STR_TO_DT for an explanation of Date_Fmt)  
;  
; OUTPUTS:  
;   Returns an IDLDT structure with the date corresponding to  
;   the base date plus the seconds parameter.  
;  
;  
; OPTIONAL OUTPUTS:  
;  
;  
;  
;  
; COMMON BLOCKS:  
;  
;  
;  
;  
; SIDE EFFECTS:  
;  
;  
;  
;  
; RESTRICTIONS:  
;  
;  
;  
;  
;  
; PROCEDURE:  
;  
;  
;  
;  
;  
; EXAMPLE:
```

```
; PRINT, SEC_TO_DT( 245004.0)
;
;
; MODIFICATION HISTORY:
;
;-
tmp = {idldt}

IF keyword_set( base ) THEN BEGIN
    ret_val = STR_TO_DT( base, Date_fmt=date_fmt )
ENDIF ELSE BEGIN
    ret_val = !dt_base
ENDELSE

ret_val = DT_ADD( ret_val, second = seconds)

RETURN, ret_val
END
```

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