

---

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](#)

---

>> 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.  
>>  
> 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
```

---