
Subject: Re: SPLIT numbers into sub-numbers

Posted by [lecacheux.alain](#) on Sun, 24 Jun 2012 08:36:14 GMT

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On 22 juin, 21:52, k_ghr...@yahoo.com wrote:

> Dear all
> I would like to split the following number 20100115 into year, month
> and day
> any suggestions
> Thanks

The "IDL way" for extracting dates from such a coded integer array might be:

IDL> dates = transpose([x/10000],[x mod 10000]/100],[x mod 100])
in which dates will be an array of dimensions 3 x N_elements(x).

for instance:

IDL> x = [20100401, 20110501, 20120601]

IDL> print, transpose([x/10000],[x mod 10000]/100],[x mod 100])

2010	4	1
2011	5	1
2012	6	1

A maybe more "readable", but slower way would be:

IDL> dates = intarr(3,N_elements(x)) ;you must define your output first

IDL> reads, string(x, FORMAT='(i8)'), dates, FORMAT='(i4,i2,i2)'

or, if you like Julian days:

IDL> jd = dblarr(3,N_elements(x)) ;you must define your output first

IDL> reads, string(x, FORMAT='(i8)'), jd,
FORMAT='(C(CYI4,CMOI2,CDI2))'

IDL> print,jd

2455288.0	2455683.0	2456080.0
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alx.
