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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
```

alx.

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