Subject: Re: Parsing dates (ARGH!)
Posted by btt on Mon, 17 May 2004 17:27:58 GMT

Jamie Smyth wrote:
> Can someone please explain how I can parse the year, month, day, hour,
> minute, and seconds from a timestamp such as '2004-01-01
> 01:22:15.1234'
>
> IDL> print, a
> 2004-01-01 00:10:22
> IDL> print, size(a, /tname)
> STRING
> IDL> sql_fmt = "(C(CYI4, X, CMoI2.2, X, CDI2.2, X, CHI2.2, X," + $
> IDL>   " CMI2.2, X, CSF7.4))"
> IDL> reads, a, year, format=sql_fmt
> IDL> help, year
> YEAR   INT   =   28173
> IDL> reads, a, year, month, date, hour, minute, seconds,
> format=sql_fmt
> % READS: End of input data encountered: A
> % Execution halted at: $MAIN$
>
> Thanks, I've blown most of the morning on this...
Hello,

You could try ....

```
IDL> b = strsplit(a, '[- :]', /extract)
IDL> for i = 0, n_elements(b)-1 do print, i,' = ',  b[i]
      0 = 2004
      1 = 01
      2 = 01
      3 = 00
      4 = 10
      5 = 22
```

Ben

Subject: Re: Parsing dates (ARGH!)
Posted by Rick Towler on Mon, 17 May 2004 17:41:36 GMT

"Jamie Smyth" wrote...
> Can someone please explain how I can parse the year, month, day, hour,
> minute, and seconds from a timestamp such as '2004-01-01
> 01:22:15.1234'

Probably not the fastest or most elegant but:

```
IDL> a='2004-01-01 00:10:22'
IDL> ddtt=STRSPLIT(a,' ', /EXTRACT)
IDL> date=STRSPLIT(ddtt[0],'-',/EXTRACT)
IDL> time=STRSPLIT(ddtt[1],':',/EXTRACT)
IDL> print, date
2004 01 01
IDL> print, time
00 10 22
```

date and time will be 3 element vectors where date[0] is year, time[0] is hour, date[1] is month, time[1] is minute, etc...

-Rick

Subject: Re: Parsing dates (ARGH!)
Posted by Chris[1] on Mon, 17 May 2004 17:49:08 GMT

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The format you have supplied (the "C()" format) returns a Julian date as a floating point number (use double precision). Then use the caldat procedure to transfer this to numeric values for year, month,day, etc. i.e
```
IDL> x = 0d0
IDL>reads, a, x, format=sql_fmt
IDL>caldat,x,month,day,year,hour,minute,second
```

Chris

"Jamie Smyth" <jamiesmyth_uni@yahoo.ca> wrote in message
news:120533fa.0405170849.31c48ec6@posting.google.com...
> Can someone please explain how I can parse the year, month, day, hour,
> minute, and seconds from a timestamp such as '2004-01-01
> 01:22:15.1234'
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> IDL> print, a
> 2004-01-01 00:10:22
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> IDL> sql_fmt = "(C(CYI4, X, CMoI2.2, X, CDI2.2, X, CHI2.2, X," + $
> IDL>   " CMI2.2, X, CSF7.4))"
> IDL> reads, a, year, format=sql_fmt
> IDL> help, year

> YEAR   INT   =   28173
> IDL> reads, a, year, month, date, hour, minute, seconds,
> format=sql_fmt
> % READS: End of input data encountered: A
> % Execution halted at: $MAIN$
>
> Thanks, I've blown most of the morning on this...