
Subject: Re: comparing and concatenating arrays...please help!!

Posted by [R.Bauer](#) on Fri, 09 Jan 2004 17:55:10 GMT

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Martin Doyle wrote:

Dear Martin,

we have some routines which could be used to synchronize your data.

With string2js you could convert your data columns of time into julian seconds.

for example:

```
time1=string2js('1954 12 31 23',format=' Y M D H')
```

If you have done this you have a numerical time

```
print,js2string(-1.4200740d+09)
gives 1954-12-31 23:00:00 000
```

http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_source/idl_html/dbase/string2js_dbase.pro.html

http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_source/idl_html/dbase/js2string_dbase.pro.html

You may be interested in our time_series_sync routine too

http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_source/idl_html/dbase/time_series_sync_dbase.pro.html

```
Result = TIME_SERIES_SYNC(Master_time, Client_time, Client_value)
```

If you are able to store your data in an icg-data-structure you could do this for all parameters at once by icg_ts_sync

if you are interested this may be interesting

http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_source/idl_html/dbase/gen_icgs_dbase.pro.html

```
s=gen_icgs(/small,short=['time','P1','P2'])
```

```
help,s,/str
```

```
*s.time.param=string2js(time,format=' Y M D H')
```

```
*s.time.units='seconds since 2000-01-01 00:00:00'
```

```
*s.time.long_name='time'
```

```
*s.p1.param=
```

```
*s.p1.units=
```

```
*s.p1.long_name=
```

```
*s.p2.param=  
*s.p2.units=  
*s.p2.long_name=  
s=chk_struct(s)  
master=ptr_struct2struct(s,/free)
```

```
result=icg_ts_sync(master,client)  
http://www.fz-juelich.de/icg/icg-i/idl\_icglib/idl\_source/idl\_html/dbase/icg\_ts\_sync\_dbase.pro.html
```

This structure could be stored to several data formats already.
e.g. netCDF, HDF, nasa FFI 1001, END

For further routines and licensing please have a look at
http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_lib_intro.html

best regards

Reimar

```
> Hello all,  
>  
> I really hope someone out there can help me with this....I am tearing  
> my hair out as my code is so slow!  
>  
> I have 2 files of data (hourly met data) with one file containing one  
> set of parameters, and the other file containing another set of  
> parameters. What I am trying to do, is to match the data based on the  
> YY, MM, DD and HH values and then write BOTH sets of parameters to a  
> seperate file. For example;  
>  
> file1:  
> 1954 12 31 23 90 11 4 366 0.00  
>  
> file2:  
> 1954 12 31 23 2.80 2.10 2.20 95.21  
>  
> intended result:  
> 1954 12 31 23 90 11 4 366 0.00 2.80 2.10 2.20  
> 95.21  
>  
> NOTE: Both files have no order to them, so a simple concatenation  
> won't work  
>
```

```
> I have written some code, but it is wrist slashing-ly slow!;
>
> I read in each variable as a seperate array...
>
> b=0L
> REPEAT BEGIN
> c=0L
> REPEAT BEGIN
> If (year(b) EQ year2(c)) AND (month(b) EQ month2(c)) AND (day(b) EQ
> day2(c)) AND (hour(b) EQ hour2(c)) THEN BEGIN
>
> printf, 3, year(b), month(b), day(b), hour(b), winddir(b), windsp(b),$
> present(b),visib(b), mslpres(b), airt(c), dewt(c), wett(c), relh(c),$
> format = finalformat
> endif
>
> c=c+1
>
> ENDREP UNTIL c EQ lines2-1
>
> b=b+1
>
> ENDREP UNTIL b EQ lines1-1
>
> I'm sure there must be a better way than this.
>
> Please help me!
>
> Many thanks in advance, Martin..
```

--

Reimar Bauer

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a IDL library at ForschungsZentrum Juelich

http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_lib_intro.html

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