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 interesing
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..


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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
 ============================================================ =======
```