
Subject: Re: IDL and sqlite

Posted by [Brian Larsen](#) on Mon, 10 Nov 2008 12:49:41 GMT

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I have played with this some but I found it a little awkward and not that fast. However some more thought may fix these issues. I attached the code that I used and then decided not to go any further, more for lack of time than technical reasons. This was all done on this idl:

```
IDL> print, !version
```

```
{ i386 darwin unix Mac OS X 6.4.1 Sep 25 2007    32    64}
```

The files I used all looked like this:

L	Phi
4.66432	1.65347
4.76471	1.68353
4.76471	1.71359
4.76471	1.74366
4.76471	1.77372
4.66432	1.80378

and on for a long way in lots of files.

```
;; .run create_ppb_sqlite
```

```
database_fname = 'ppb_database.sql'
```

```
;; create the table, error will throw if it already exists and thats
```

```
;; probably ok
```

```
spawn, 'sqlite3 ' + database_fname + " ' CREATE TABLE file(" + $
```

```
    "file_id INTEGER PRIMARY KEY, " + $
```

```
    "filename TEXT," + $
```

```
    "euv_date_arr integer[5]," + $
```

```
    "jd real" + $
```

```
    ");"
```

```
;; create a table for the data in the file
```

```
spawn, 'sqlite3 ' + database_fname + " ' CREATE TABLE data(" + $
```

```
    "id INTEGER PRIMARY KEY, " + $
```

```
    "file_id INTEGER," + $
```

```
    "I REAL," + $
```

```
    "phi REAL," + $
```

```
    "mlt REAL" + $
```

```
");"
```

```
;; read in the ppb files and feed their names into the database
```

```
progressBar = Obj_New("PROGRESSBAR")
```

```
progressBar->Start
```

```
progressBar2 = Obj_New("PROGRESSBAR")
```

```
progressBar2->Start
```

```
files = file_search('*.ppb.*')
```

```
FOR i = 0L, n_elements(files)-1 DO BEGIN
```

```
  spawn, 'sqlite3 ' + database_fname + " ' INSERT into file values(" + $
```

```
    "NULL," + $
```

```
    ""+files[i]+"" + "," + $
```

```
    trim((euv_date2arr(files[i]))[0]) + "," + $
```

```
    trim(euv_date2jd(files[i]), '(d14.6)')+ $
```

```
  ");"
```

```
  dat = read_ppa(files[i], /compress, /mlt)
```

```
  ind = where(finite(dat.l) EQ 1, n_ind)
```

```
  FOR j = 0L, n_ind-1 DO BEGIN
```

```
    spawn, 'sqlite3 ' + database_fname + " ' INSERT into data values(" + $
```

```
      "NULL," + $
```

```
      "NULL," + $
```

```
      trim(dat.l[ind[j]]) + "," + $
```

```
      trim(dat.phi[ind[j]]) + "," + $
```

```
      trim(dat.mlt[ind[j]]) + $
```

```
    ");"
```

```
  IF j MOD 5 EQ 0 AND j NE 0 OR j EQ n_ind-1 THEN BEGIN
```

```
    IF i MOD 2 EQ 0 THEN progressBar2 -> SetProperty,
```

```
    Color='red' ELSE progressBar2 -> SetProperty, Color='black'
```

```
    progressBar2->Update, float(j+1)/n_ind*100.
```

```
    cancelled = progressBar2->CheckCancel()
```

```
    IF cancelled THEN BREAK
```

```
  ENDIF
```

```
ENDFOR
```

```
IF cancelled THEN break
```

```
progressBar->Update, float(i+1)/n_elements(files)*100.
```

```
cancelled = progressBar->CheckCancel()
```

```
IF cancelled THEN break
```

```
ENDFOR
```

```
progressBar->Destroy  
Obj_Destroy, progressBar
```

```
progressBar2->Destroy  
Obj_Destroy, progressBar2
```

END

Cheers,

Brian

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