Subject: Error in function js2ymds (JHU/APL/S1R IDL Lib)?

Posted by Olaf Stetzer on Thu, 13 Sep 2001 16:44:56 GMT

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Hello,

as mentioned in my last posting I want to convert
Date/Time from Microsoft(Excel)-Format (based on
1.1.1900= day 1) into Julian Seconds and then from JS
into the ODBC-SQL-TIMESTAMP-struct.

For the last conversion I've written a function
which basically runs js2ymds to get the values
for y m d and then computes hh mm ss from the
resulting seconds.

All values are then stored in the aforementioned struct.

I now tried to compute the js from MS-Format and then
use my function to store this in the sqlstruct:
---
function mstime2sqlts, msdate, mstime

jsdate=(msdate-1)*86400d0-3155673600d0
js=mstime*86400d0+jsdate
sqlts=js2sqlts(js)
return, sqlts

end

However I realised that the dates which result from
my computation differ from the ones that I get when
I just change the format setting in Excel!

Some Examples:

msdate msdate (formatted) js2ymds

1 1900 1 1 1900 1 1
366 1900 12 31 1901 1 1
12481 1934 3 3 1934 3 4
36682 2000 6 5 2000 6 6

It seems that in the MS-year 1900 has 1 more day
compared to the one calculated by js2ymds!! I don't
know if the fault is in Microsoft Excel or in the
function js2ymds but maybe in 1900 there was an
extra switching day (german: Schalttag) which is

not calculated in the function?

Greetings,

Olaf

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