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! RE-STORE "Corel_qp.prg"
!
!*****
! "Quattro Pro example" for Tech Soft's MS Office function library
!
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! Author:          Sven Henze
! Date:           03-Sep-2001
! Last change:    02-May-2006
!*****
!
!
INTEGER Verbose=1          ! switch on/off verbose mode (0=off)
!
! Load the high level function library if not already loaded
IF NOT INMEM("Dde_lib_start") THEN LOADSUB ALL FROM "htbdde.lib"
!
!
! Now we call the custom SUB where the Office functions will be executed
! If you need more calling parameters either include them in the SUB definition
! or use COM blocks
!
CALL Dde_mainprog(Verbose)
!
!
! cleaning up SUB programs (in order to make sure that the most recent versions are loaded every time)
DELSUB Dde_lib_start TO END
!
END
!
SUB Dde_mainprog(OPTIONAL INTEGER Verbose)
!
!*****
! *
! * MS Office Interface for HTBasic: Corel Quattro Pro example
! *
! * Version : 2.01.55
! * Author  : Sven Henze, Tech Soft GmbH
! * Created : 03-Sep-2001
! * Updated : 02-May-2006
! *
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! *                               Email: HTB@TechSoft.de
! *                               http://www.techsoft.de/dde.htm
! *
!*****
!
! Description:
! =====
!
! This example shows how to work with Corel Quattro Pro. It opens a Quattro Pro
! template file, writes data into that file, reads out data from two cells
! and creates a 3D diagram. Finally it saves the file under a new name.
! The example has been created using Corel Quattro Pro 12 but should work
! with earlier and newer versions of Quattro Pro too.
!
! The entry point for your own DDE commands can be found under the label
! named "Myown_dde_cmds". You can include any DDE code here using the
! pre-allocated system variables (DDE channel numbers, application name etc.).
! One example is given, it returns all available "Sysitems" of the application.
!
! Please note:
! This program was written and optimized for HTBasic 8.3 and higher.
! If you use an older version of HTBasic it might be necessary to remove
! or change some commands. The example does *not* work with HTBasic 7.x due
! to some problems in the CSUB interface within HTBasic 7.x.
!
! define some variables
!
DIM Doc_template$(1:10)[255],Doc_file$(255),App_exe$(255),Topic$(255),Tmp$(8192),Htbvers$(80),Os$(255),Question$(1024)
INTEGER Printer,Btn,Sys_chn(1:5),Doc_chn(1:10),Result(1:10),App_quit,Language,Printlen
DIM Ddecmd$(255),Info$(2048),Bookmark$(128),Doc_password$(128),Sel$(255),Struct_file$(255)
DIM Top$(4096),Sname$(255),Value$(1024),App_name$(255),Htb_real$(255),Ret$(1:2)[4096]
DIM G$(5),X$(5),Hl$(5),Hx$(5),App$(255),CrLf$(8),Wpwinvers$(20),I$(255),Colchar$(255),Newfile$(5)
INTEGER Rows,Columns,Row_ofs,Col_ofs,I,J,Rv1,Cv1,Rv2,Cv2,Dummy,Xres
!
ON ERROR GOSUB Dde_err_handler          ! Global error handler
!
G$=CHR$(19)          ! character code for inverse printing
X$=CHR$(16)          ! character code for normal printing
Hl$=CHR$(30)         ! character code for "highlighted" printing (different color)
Hx$=CHR$(24)         ! character code for "normal" printing (color)
CrLf$=CHR$(10)&CHR$(13)
!
!
INTEGER Verb_
Verb_=0
IF NPAR>=1 THEN
  IF Verbose>0 THEN Verb_=1
END IF
!
Printlen=FNDde_defprintlen ! define printlen for this session
!
! define colors and other settings
INTEGER Custom_colours
Custom_colours=1          ! use custom colours (set to 0 if you do not wish to change colour palette)
!
IF NOT FNDde_init_system(Custom_colours) THEN STOP
!
!
! define the application
App$="QPW"          ! Corel Quattro Pro

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!
! Application quit behaviour
! Values: 0 = Do not close the application ever
!         1 = Close the application after all DDE commands have been sent without any warning
!         2 = Prompt the user to close the application
!         >2 = App_quit=Timeout value (prompt the user to close the application until the given timeout has reached)
!           If timeout occurs the dialog will be closed and the application will not be closed automatically
App_quit=2
!
Topic$="QPW"
App_name$="Quattro Pro"
App_exe$=Topic$&".exe"
!
! If the specified filename starts with a "*" a new file will be created and saved
!Newfile$="" ! uncomment this if you want to create a new file
!
IF Newfile$="" THEN
! If the specified filename starts with a "*" a new file will be created and saved
Doc_template$(1)=Newfile$&SYSTEM$( "MSI" )&"\newfile.qpw" ! Create new empty document
ELSE
Doc_template$(1)=SYSTEM$( "MSI" )&"\template.qpw" ! Quattro Pro template
END IF
Doc_template$(2)=SYSTEM$( "MSI" )&"\template-output.qpw" ! Quattro Pro output file
!
!
IF Verb_>0 THEN CALL Dde_programhead("HTBasic - Corel Quattro Pro example")
CALL Dde_start(App_exe$,Topic$,Sys_chn(1),Language,Verb_) ! start the DDE application defined in Topic$
!
IF NOT Sys_chn(1) THEN
BEEP
GOTO Finish
END IF
!
ALPHA PEN 3
IF Verb_>0 THEN OUTPUT CRT;" "&CHR$(20)&"Sending DDE commands to "&App_name$&&X$
ALPHA PEN 1
!
!
! first open a document in QPW
Doc_chn(1)=FNDde_openfile(Topic$,Sys_chn(1),Doc_template$(1),Result(1),Doc_password$,Verb_)
!
IF NOT Doc_chn(1) THEN
BEEP
GOTO Finish
END IF
!
!
Myown_dde_cmds: !
!
! =====
! ***** Custom DDE programming starts here *****
!
! Todo: Write your own MS Office programming code here
!
! CALL Dde_driver_info ! shows info about DDE driver version and date
!
! CALL Ddeexecute(Doc_chn(1),"{WindowQPW.Minimize}",Result(1)) ! Minimize QPW Window (makes Poke faster)
!
Sheetdata: ! sheet data
!
Rows=6 ! number of rows to write
Columns=13 ! number of columns to write
Row_ofs=2
Col_ofs=0
!
! Data for Excel table
DATA Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec
DATA Sven, 12.1234, 11.10.043, 9, 8, 7.106, 6, 5.0432, 4, 3.104, 2, 1
DATA Dan, 13, 12.004, 11, 10.05, 9, 8, 7, 6.04, 5, 4.01, 3, 2, 1
DATA Pat, 14, 13.046, 12, 11, 10.1, 9, 8.043, 7, 6.015, 5, 4.1, 3.0206
DATA Joerg, 15, 14.0418, 13, 12.1052, 11, 10.0832, 9, 8.1, 7, 6.1, 5, 4.03
DATA Martin, 16.031, 15, 14.06128, 13, 12.021, 11, 10.01, 9, 8, 7, 6, 5, 1
!
RESTORE Sheetdata
!
Dde_fprint(" -> Poking some values into the new sheet ",Printlen-2,Verb_)
!
Value$=Value$&"HTBasic DDE Test (current date and time: "&DATE$(TIMEDATE)&", "&TIME$(TIMEDATE)&")"
! Poke the data into the sheet
CALL Ddepoke(Doc_chn(1), "A:A1", Value$, Result(1))
!
FOR I=1 TO Rows
FOR J=1 TO Columns
!
I$="A:"&CHR$(64+J)&VAL$(I+Row_ofs) !
READ Value$
!
! convert the HTBasic value into Windows locale format (decimal point!)
Value$=FNDde_htbnum_2_xl$(Value$,Language,Xres)
!
! Poke the data into the sheet
CALL Ddepoke(Doc_chn(1), I$, Value$, Result(1))
NEXT J
NEXT I
CALL Dde_show_status(Result(1),Verb_)
!
!
! now insert SUM formulas into the last row of each data column
!
FOR I=1 TO Columns
Colchar$=CHR$(NUM("A")+I-1)

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IF I=1 THEN
    CALL Ddepoke(Doc_chn(1), "A:" & Colchar$ & VAL$(3+Rows-1+Row_ofs), "Total", Result(1))
ELSE
    Value$="{SELECTBLOCK " & Colchar$ & "4.." & Colchar$ & VAL$(3+Rows-1+Row_ofs) & "}"
    CALL Ddeexecute(Doc_chn(1), Value$, Result(1))
    CALL Ddeexecute(Doc_chn(1), "{SPEEDSUM}", Result(1))
END IF
NEXT I
!
! now format the SUM row
Colchar$=CHR$(NUM("A")+Columns-1)
Value$="{SELECTBLOCK A" & VAL$(Rows+Row_ofs+2) & ".." & Colchar$ & VAL$(Rows+Row_ofs+2) & "}"
CALL Ddeexecute(Doc_chn(1), Value$, Result(1)) ! select total line
!
! format cells: Courier, 12 point, bold, color=4 (red)
CALL Ddeexecute(Doc_chn(1), "{Setproperty Cell_Font;" & "Courier;12;1;0;0;4;0"}", Result(1))
!
! Now insert a diagram. See the QPW macro help for more information.
CALL Ddeexecute(Doc_chn(1), "{GraphNew Chart1}", Result(1))
CALL Ddeexecute(Doc_chn(1), "{Series.Data_Range XAxisLabelSeries;(A:A4..A8)}", Result(1))
CALL Ddeexecute(Doc_chn(1), "{Series.Data_Range LegendSeries;A:B3..M3}", Result(1))
!
! create the diagram data ranges
CALL Ddeexecute(Doc_chn(1), "{Series.Data_Range 1;(A:B4..B8);1}", Result(1))
CALL Ddeexecute(Doc_chn(1), "{Series.Data_Range 2;(A:C4..C8);1}", Result(1))
CALL Ddeexecute(Doc_chn(1), "{Series.Data_Range 3;(A:D4..D8);1}", Result(1))
CALL Ddeexecute(Doc_chn(1), "{Series.Data_Range 4;(A:E4..E8);1}", Result(1))
CALL Ddeexecute(Doc_chn(1), "{Series.Data_Range 5;(A:F4..F8);1}", Result(1))
CALL Ddeexecute(Doc_chn(1), "{Series.Data_Range 6;(A:G4..G8);1}", Result(1))
CALL Ddeexecute(Doc_chn(1), "{Series.Data_Range 7;(A:H4..H8);1}", Result(1))
CALL Ddeexecute(Doc_chn(1), "{Series.Data_Range 8;(A:I4..I8);1}", Result(1))
CALL Ddeexecute(Doc_chn(1), "{Series.Data_Range 9;(A:J4..J8);1}", Result(1))
CALL Ddeexecute(Doc_chn(1), "{Series.Data_Range 10;(A:K4..K8);1}", Result(1))
CALL Ddeexecute(Doc_chn(1), "{Series.Data_Range 11;(A:L4..L8);1}", Result(1))
CALL Ddeexecute(Doc_chn(1), "{Series.Data_Range 12;(A:M4..M8);1}", Result(1))
!
CALL Ddeexecute(Doc_chn(1), "{Series.Go}", Result(1))
CALL Ddeexecute(Doc_chn(1), "{FloatCreate Graph;A:A11;105;135;A:G33;945;105;Chart1}", Result(1))
!
! Insert diagram title
CALL Ddeexecute(Doc_chn(1), "{GraphSettings.Titles " & "Created by HTBasic for Windows";"";"";"";"";""}", Result(1))
!
! format the graph to 3D bargraph
CALL Ddeexecute(Doc_chn(1), "{GraphSettings.Type ""3D Bar""}", Result(1))
!
CALL Ddeexecute(Doc_chn(1), "{WindowQPW.Maximize}", Result(1)) ! Maximize QPW Window
!
RANDOMIZE
!
! Now retrieve some cells from the sheet
!
! define the cells to be retrieved
Rv1=3+INT((Rows-1)*RND) ! random value R1 between 4 and 8
Cv1=1+INT(Columns*RND) ! random value C1 between 2 and 7
Rv2=3+INT((Rows-1)*RND) ! random value R2 between 4 and 8
Cv2=1+INT(Columns*RND) ! random value C2 between 2 and 7
!
! Now read some values from Quattro Pro
!
! Please note: If you request numbers you normally get numbers with a decimal point
! as specified in the system's locale configuration. This decimal point
! is "." for the United States and other English speaking countries
! but e.g. for German speaking it is ",". So we must convert the decimal
! point as well as the thousands separator back into a HTBasic readable
! format. Use the function FNDde_xl_2_htbnum$ for this purpose.
!
CALL Dderequest(Doc_chn(1), "A:" & CHR$(64+Cv1) & VAL$(Rv1), Ret$(1), Result(1)) ! get 1st value
Htb_real$=FNDde_xl_2_htbnum$(Ret$(1), Language, Result(3)) ! do the conversion (if possible) !
Dde_fprint(" -> Reading value of (A:" & CHR$(64+Cv1) & VAL$(Rv1) & "): "& H1$ & Htb_real$ & Hx$ & " ", Printlen, Verb_)
CALL Dde_show_status(Result(1), Verb_)
!
CALL Dderequest(Doc_chn(1), "A:" & CHR$(64+Cv2) & VAL$(Rv2), Ret$(2), Result(1)) ! get 2nd value
Htb_real$=FNDde_xl_2_htbnum$(Ret$(2), Language, Result(3)) ! do the conversion (if possible) !
Dde_fprint(" -> Reading value of (A:" & CHR$(64+Cv2) & VAL$(Rv2) & "): "& H1$ & Htb_real$ & Hx$ & " ", Printlen, Verb_)
CALL Dde_show_status(Result(1), Verb_)
!
! ***** Custom DDE programming ends here *****
!
=====
CALL Dde_focus2basic ! bring HTBasic window back to front
!
IF Newfile$="" THEN
    ! if the file was newly created simply save it under the given name
    Dummy=FNDde_savefile(Topic$, Doc_chn(1), Doc_template$(1), Result(1), 2, "", Verb_)
ELSE
    ! Save file under the name specified in Doc_template$(2). Ask for overwrites
    Dummy=FNDde_savefile(Topic$, Doc_chn(1), Doc_template$(2), Result(1), 0, "", Verb_)
END IF
!
Dde_enter_kbd(" Press <RETURN> to close the document(s).")
!
! Close file and ask if file should be saved
! Doc_chn(1)=FNDde_closefile(Topic$, Sys_chn(1), Doc_template$(1), Result(1))
!
! Close file, do not ask for save
Dummy=FNDde_closefile(Topic$, Sys_chn(1), Doc_template$(1+Dummy), Result(1), 1, Verb_)
!
Finish:
! terminate all DDE connections and resources

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! if variable "App_quit" is set to 1 or greater the application will be closed
CALL Dde_quit(Sys_chn(1),Doc_chn(1),Result(1),App_quit,Topic$,Verb_,0,1)
!
ALPHA PEN 4
DISP " Program finished."
ALPHA PEN 1
!
SUBEXIT
!
! Global error handler
Dde_err_handler: !
BEEP
Dde_enter_kbd("**** Global Error Handler ****"&CrLf$&CrLf$&ERRM$)
ERROR RETURN
!
SUBEND
```