DDEWatch 1.3

Horizon Technologies Inc.

Overview:

DDEWatch is a Microsoft Windows program designed to monitor
Dynamic Data Exchange (DDE) messages. It is a useful tool
to aid in the development of DDE based applications. 'C'
language programmers, Excel macro developers and others can
use DDEWatch as both a debugging tool and a way to learn
DDE.

DDEWatch displays each DDE message as it occurs. The
information displayed contains the window handles of both
the sender and receiver, the message type and any additional
parameters. These parameters include keyword
representations of flag fields, command strings, data
format, and data strings. DDEWatch displays each new DDE
message below the previous one. When the screen is full,
the next message replaces the first. A line separates the
first and last messages captured.

DDEWatch also displays a list of the client-server window
handles of all active DDE sessions. DDEWatch maintains this
list to reflect every new DDE session detected. When a DDE
session ends, DDEWatch removes the client-server window
handles from the list.

The DDEWatch Display:

Once DDEWatch is invoked, it displays all DDE message
traffic in real time. The DDEWatch display is divided
vertically into two sections.

The left section of the display shows a list of active DDE
sessions. The hexadecimal numbers are the client and server
window handles. The following figure shows two active
sessions: Client "630c" communicating with Server "2f30",
and Client "5f10" communicating with the same server.

```
-----------------------------------------------------------------------
| - |                          DDEWatch                    | \/ | /\ |
-----------------------------------------------------------------------
| File                                                                |
-----------------------------------------------------------------------
| Client Server |630c<-2f30 Data       Advise AckReq Release Fmt=Te|
|---------------|5f10->2f30 Request    Fmt=Text|Position            |
| * 630c   2f30 |5f10<-2f30 Data       Response AckReq Release Fmt= |
| * 5f10   2f30 |5f10->2f30 Ack        App=00|Position             |
|               |5f10->2f30 Execute    "[l][d]"                     |
|               |5f10<-2f30 Ack        App=00|"[l][d]"             |
|               |630c->2f30 Ack        App=00|0                    |
-----------------------------------------------------------------------
|<-| |||                                                          |->|
-----------------------------------------------------------------------
```

    The asterisk to the left of the client numbers indicates
    that DDEWatch is displaying messages for that session. To
    suppress the display for a particular session, position the
    mouse pointer over the client-server pair and click the left
    mouse button. To resume the display, repeat the procedure.

    To temporarily suppress the display of messages for all
    sessions, position the mouse pointer over the right section
    of the DDEWatch display and hold the left mouse button down.
    To resume, release the button.

    The right section of the DDEWatch display shows detailed
    information about each DDE message. The client's window
    handle is always to the left of the server's. The arrow
    shows the direction of the message. A left arrow (<-)
    indicates a message from the server to the client. A right
    arrow (->) indicates a message from the client to the
    server.

    The type of message and its parameters are shown immediately
    to the right of the window handles. The parameters are
    dependant on the type of message and are listed in the
    following table:

```
 Message Type        Parameters
 -----------------------------------------------------------------------
|Initiate         | Application Name
|                 | (vertical bar)
|                 | Topic Name
```

```
|---------------+----------------------------------------------------
| Terminate     | (nothing)
|---------------+----------------------------------------------------
| Advise        | AckReq (iff the fAckReq bit is set)
|               | DeferUpd (iff the fDeferUpd bit is set)
|               | Fmt=format name*
|               | (vertical bar)
|               | Item Name
|---------------+----------------------------------------------------
| Unadvise      | Item Name
|---------------+----------------------------------------------------
| Ack (Initiate)| Application Name
|               | (vertical bar)
|               | Topic Name
|---------------+----------------------------------------------------
| Ack (Execute) | Negative (iff fAck is not set)
|               | (Busy) (iff fBusy is set)
|               | App=xx (where xx is the hex value of bAppReturnCode)
|               | (vertical bar)
|               | "Command string"
|---------------+----------------------------------------------------
| Ack (Other)   | Negative (iff fAck is not set)
|               | (Busy) (iff fBusy is set)
|               | App=xx (where xx is the hex value of bAppReturnCode)
|               | (vertical bar)
|               | Item Name
|---------------+----------------------------------------------------
| Data          | Response (iff fResponse is set)
|               | Advise (iff fResponse is not set)
|               | AckReq (iff fAckReq is set)
|               | Release (iff fRelease is set)
|               | Fmt=format name*
|               | "Data" (iff the format of the data is text)
|               | (vertical bar)
|               | Item Name
|---------------+----------------------------------------------------
| Request       | Fmt=format name*
|               | (vertical bar)
|               | Item Name
|---------------+----------------------------------------------------
| Poke          | Release (iff fRelease is set)
|               | Fmt=format name*
|               | "Data" (iff the format of the data is text)
|               | (vertical bar)
|               | Item Name
|---------------+----------------------------------------------------
| Execute       | "Command string"
---------------------------------------------------------------------
                 * The standard format names that are displayed for the
                   DDE messages Advise, Data, Request and Poke are Text,
                   BitMap, MetaFile, Sylk, Dif, Tiff and OemText
```

The DDEWatch Menu:

Monitoring DDE messages degrades system performance considerably. It may, therefore, be desirable to disable DDEWatch temporarily. This can be accomplished by selecting Watch from the File menu. This will also remove the checkmark next to the Watch menu item to indicate that monitoring has been disabled. To resume, repeat the procedure.

All output from DDEWatch may be captured in an ASCII text file. This can be accomplished by selecting Log from the File menu. This will also place a checkmark next to the Log menu item to indicate that file logging has been activated. By default, the output will be appended to the file DDEWATCH.LOG in the current directory. To suspend file logging, repeat the procedure.

The DDEWatch Section in Win.Ini:

DDEWatch supports the following entries in Win.Ini under the [DDEWATCH] section.

Watch= Sets the initial mode for monitoring DDE messages. 1 (the default) indicates that monitoring will begin upon program invocation. 0 indicates that monitoring will be initially disabled.

Log=   Sets the initial mode for file logging of DDE messages. 0 (the default) indicates that file logging will be inactive upon program invocation. 1 indicates that file logging will be initially active.

LogFile= Sets the DOS file name for DDE message logging to something other than the default DDEWATCH.LOG.

Example:
    [DDEWatch]
    Watch=0
    Log=0
    LogFile=ExcelDDE.log