



# Debugging.TV

Frame 0x15

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MEMORY DUMP ANALYSIS SERVICES

[DumpAnalysis.com](http://DumpAnalysis.com)

Including Crash and Hang Analysis Audit, Training and Seminars

Sponsors

**OPENTASK**

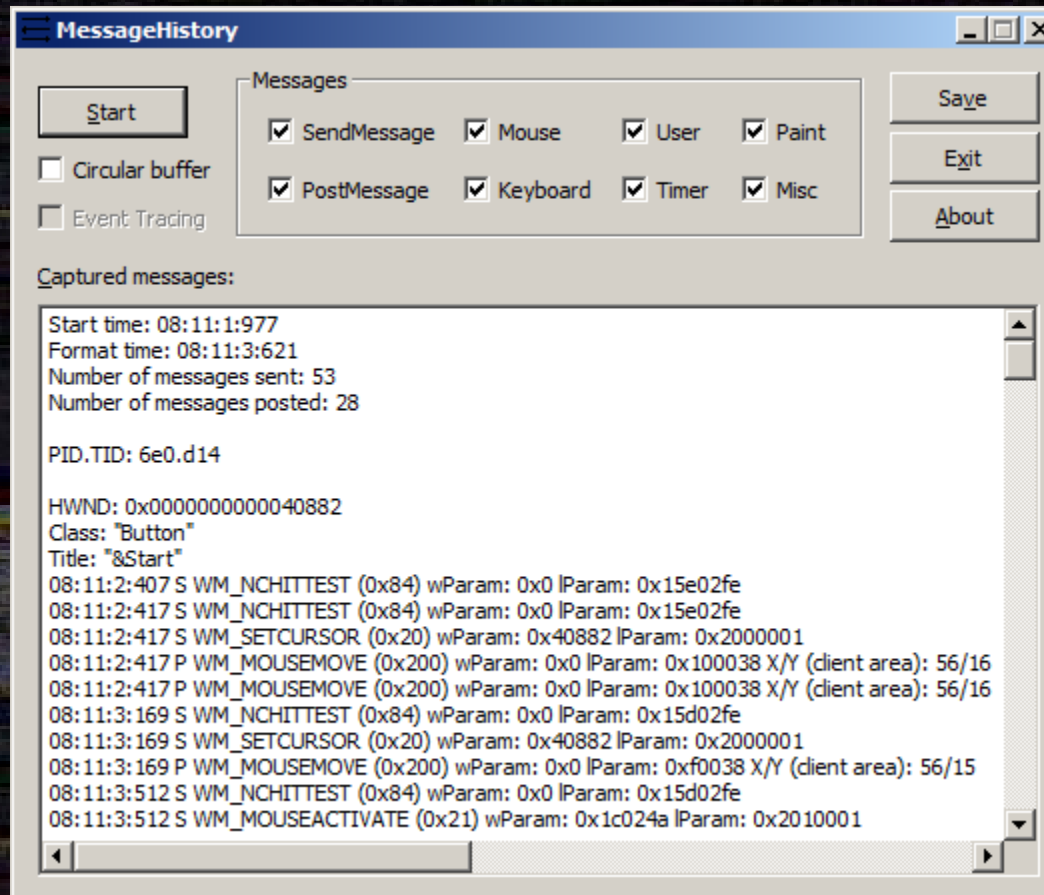
Iterative and Incremental Publishing

# Topics

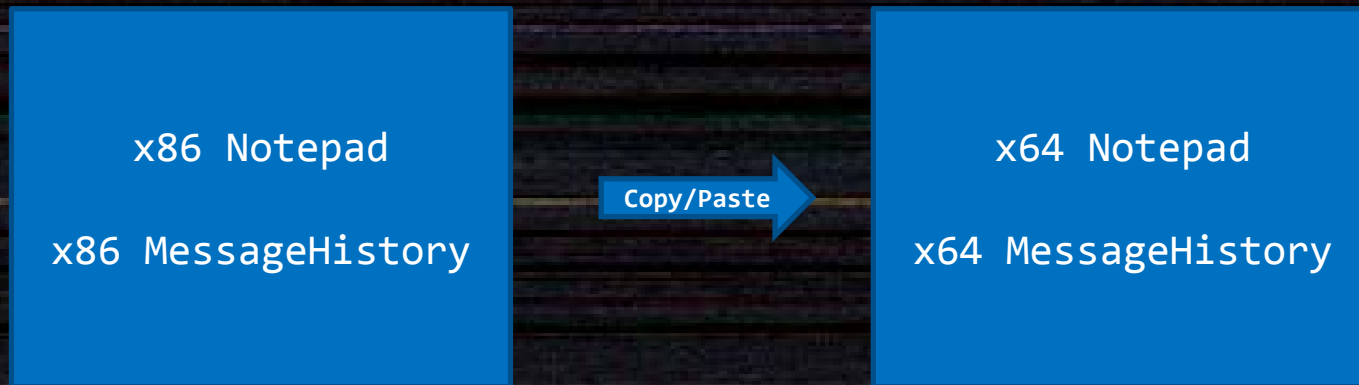
- Window Message Tracing
- Citrix MessageHistory
- Inter-Correlation Trace Analysis
- Using Excel for Trace Analysis

# MessageHistory

<http://support.citrix.com/article/CTX111068>



# Inter-Correlation



```
148920 08:37:09:420 P PID: d20 TID: 2ac HWND: 0x002B06C2 Class: Edit Msg: WM_COPY (0x301)
133333 08:37:13:660 P PID: 128c TID: 11a8 HWND: 0x0000000002D06F4 Class: Edit Msg: WM_PASTE (0x302)
```

# Analysis Challenges

- Different data field formats
- Different column ordering

Solution: A Proposal for CSTF

Common Software Trace Format

# References

Trace correlation analysis patterns:

- [Intra-Correlation](#)
- [Inter-Correlation](#)

Tools for tracing windows and window messages:

- [WindowHistory x64](#)
- [MessageHistory](#)

# !Ad Hardcore Software Support Training

November 2-5, 2012	<u>Accelerated Windows Software Trace Analysis</u>
November 16-26, 2012	<u>Accelerated Windows Memory Dump Analysis</u>
December 7-10, 2012	<u>Accelerated Windows Malware Analysis</u>
December 17, 2012	<u>Philosophy of Software Diagnostics</u> (FREE)
December, 2012	Pattern-Based Software Diagnostics
Early 2013	The New Old Debugging

# Debugging<sup>3</sup>

Coming soon

# Debugging.TV

Now on YouTube!

<http://www.youtube.com/DebuggingTV>