



# Debugging.TV

Frame 0x24

Presenter: Dmitry Vostokov

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**OPENTASK**

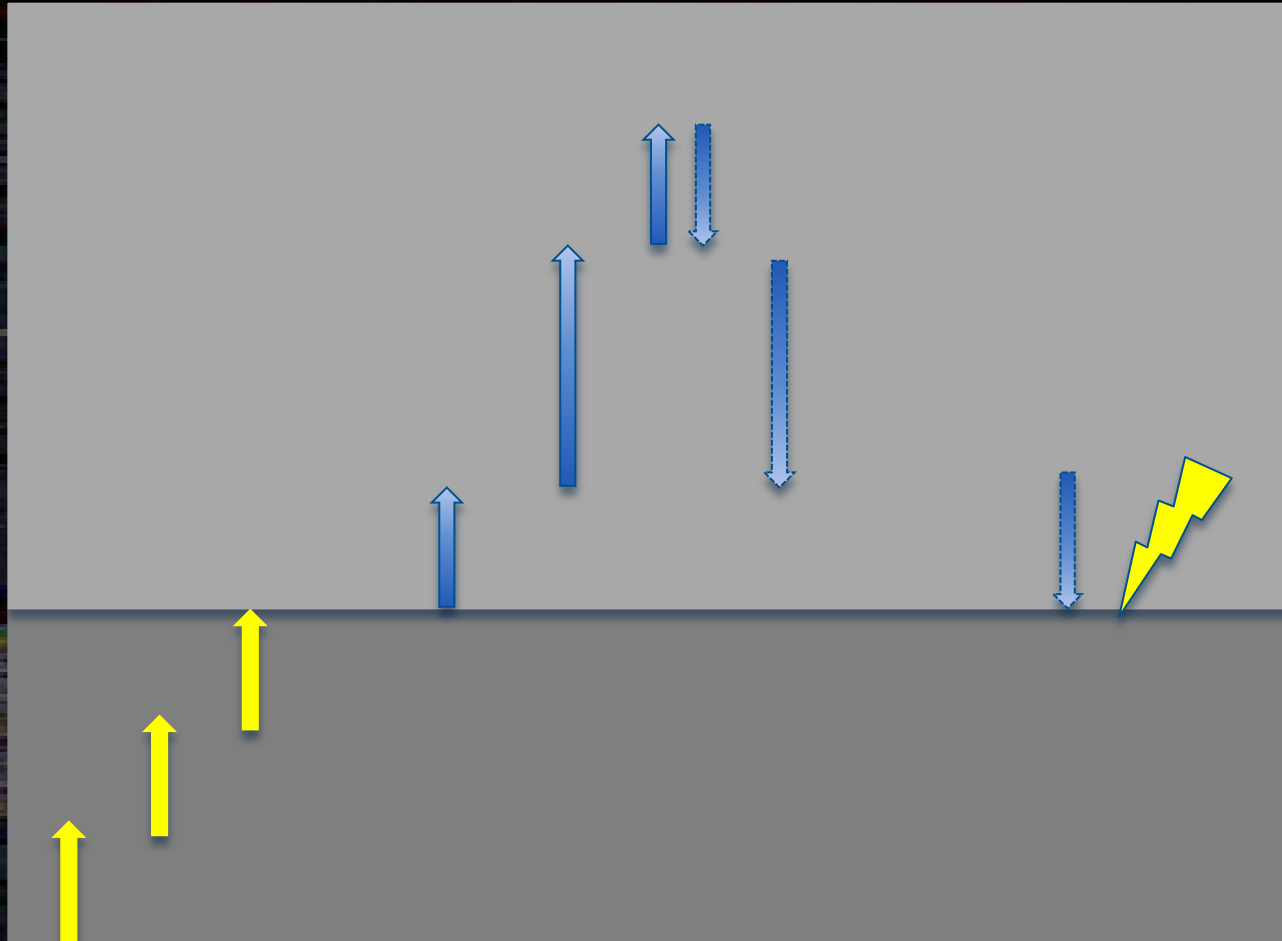
Iterative and Incremental Publishing

# Topics

- Raw stack
- Execution Residue pattern
- Manual stack reconstruction
- **New!** Past Stack Trace pattern

# Raw Stack

address

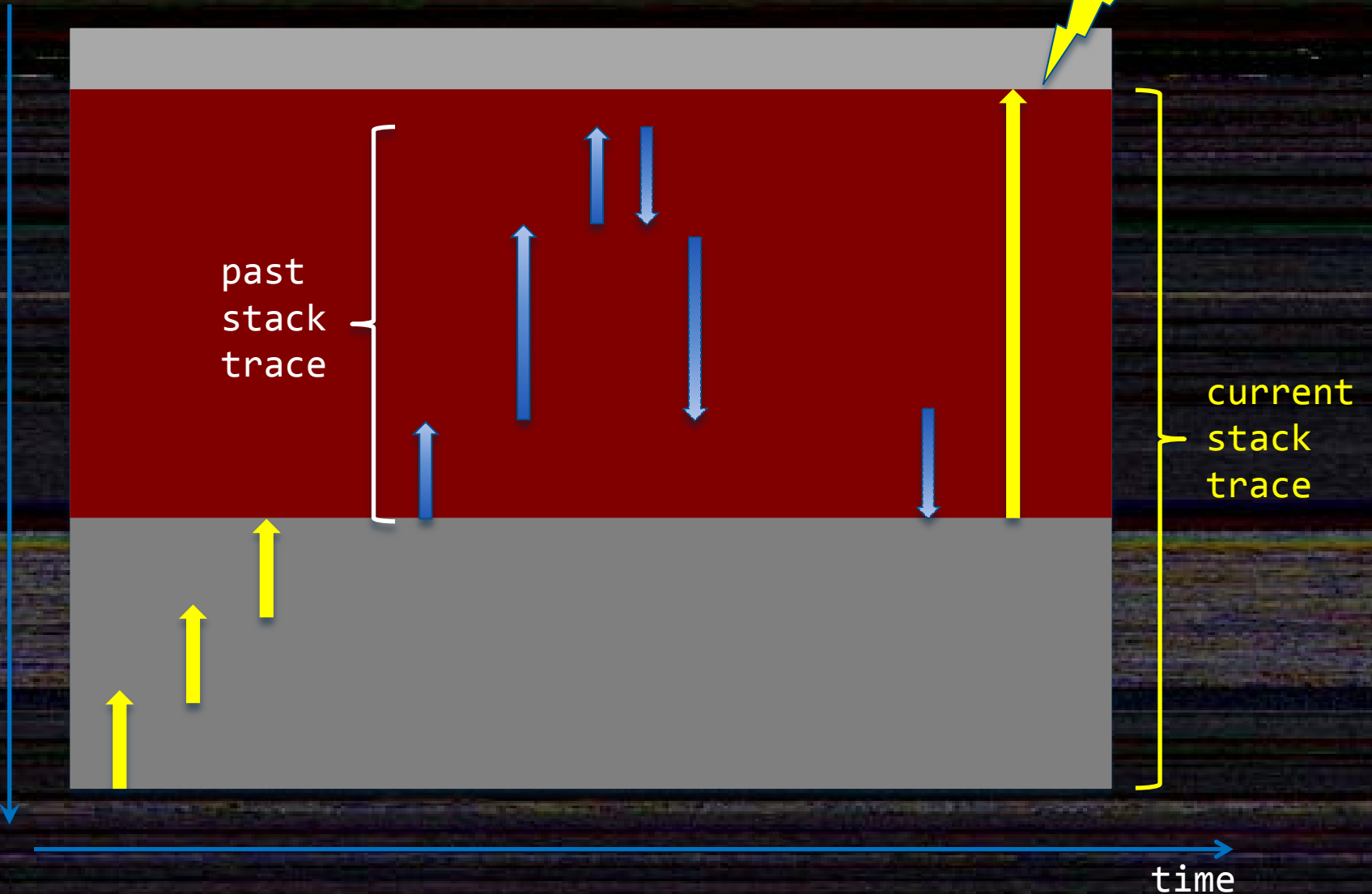


current  
stack  
trace

time

# Past Stack Trace

address



# Example

## ; Current stack trace

0:000> kL

Child-SP	RetAddr	Call Site
[...]		
00000000`001af420	00000001`3f6813a9	PastStackTrace!bar_5+0x9
00000000`001af450	00000001`3f681409	PastStackTrace!bar_4+0x39
00000000`001af510	00000001`3f681469	PastStackTrace!bar_3+0x39
00000000`001af5d0	00000001`3f6814c9	PastStackTrace!bar_2+0x39
00000000`001af690	00000001`3f6814f9	PastStackTrace!bar_1+0x39
00000000`001af750	00000001`3f681517	PastStackTrace!bar+0x9
00000000`001af780	00000001`3f6816ec	PastStackTrace!main+0x17
00000000`001af7b0	00000000`779f652d	PastStackTrace!__tmainCRTStartup+0x144
00000000`001af7f0	00000000`77b2c521	kernel!BaseThreadInitThunk+0xd
00000000`001af820	00000000`00000000	ntdll!RtlUserThreadStart+0x1d

## ; Past stack trace

0:000> kL =000000000001ab138

Child-SP	RetAddr	Call Site
[...]		
00000000`001ab140	00000001`3f6810b9	PastStackTrace!foo_8+0x49
00000000`001ab200	00000001`3f681119	PastStackTrace!foo_7+0x49
00000000`001ab2c0	00000001`3f681179	PastStackTrace!foo_6+0x49
00000000`001ab380	00000001`3f6811d9	PastStackTrace!foo_5+0x49
00000000`001ab440	00000001`3f681239	PastStackTrace!foo_4+0x49
00000000`001ab500	00000001`3f681299	PastStackTrace!foo_3+0x49
00000000`001ab5c0	00000001`3f6812f9	PastStackTrace!foo_2+0x49
00000000`001ab680	00000001`3f681355	PastStackTrace!foo_1+0x49
00000000`001ab740	00000001`3f681517	PastStackTrace!foo+0x45
00000000`001af780	00000001`3f6816ec	PastStackTrace!main+0x17
00000000`001af7b0	00000000`779f652d	PastStackTrace!__tmainCRTStartup+0x144
00000000`001af7f0	00000000`77b2c521	kernel!BaseThreadInitThunk+0xd
00000000`001af820	00000000`00000000	ntdll!RtlUserThreadStart+0x1d

# Further Reading

From Software Diagnostics Library:

[Reconstructing Stack Trace Manually](#)

[Execution Residue pattern](#)

[Incorrect Stack Trace pattern](#)

[Truncated Stack Trace pattern](#)

[Glued Stack Trace pattern](#)

Debugging TV:

[Episode 0xF \(Mac OS X\)](#)



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# Debugging<sup>3</sup>

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