#### Efficient tools and techniques for modern software development

## OS Internals with "System Informer"

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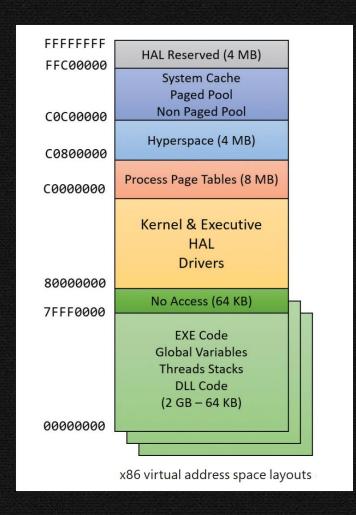


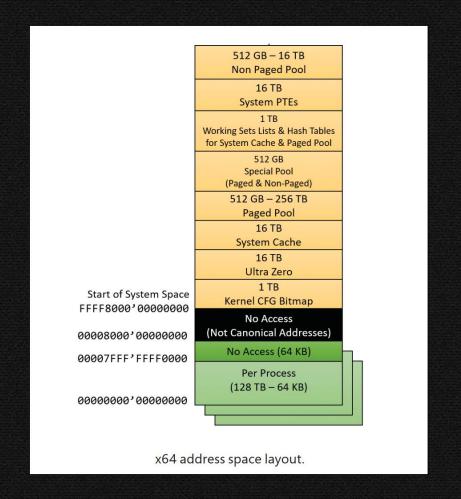
## Agenda

- Brief overview of Hardware
- Installation of System Informer
- Interface Overview(Options)
- System Overview
- Memory
- Process
- Thread
- Modules
- Environment
- Unlocking Files

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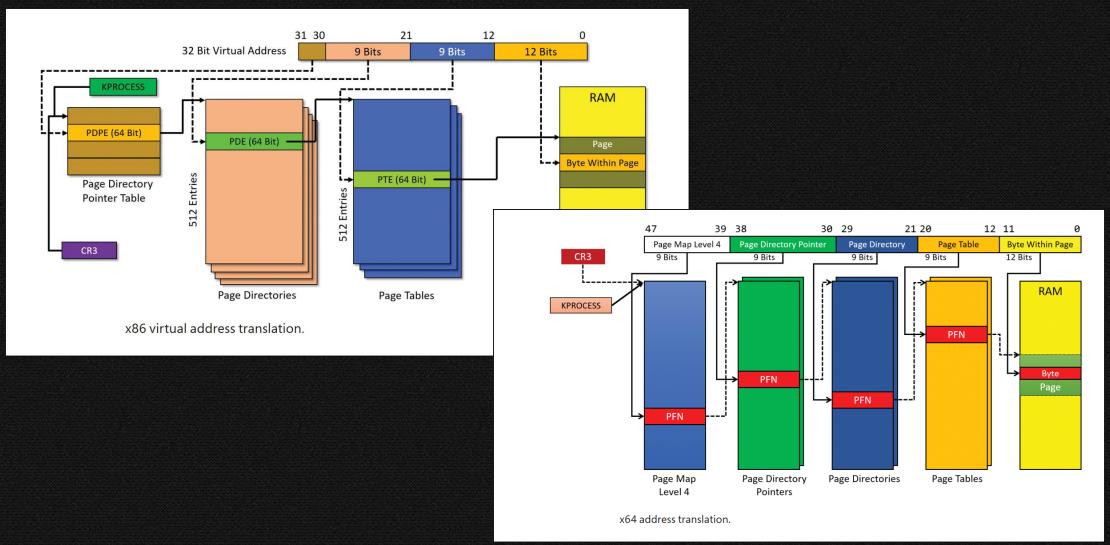
### X86 vs X64 Virtual Address Space Layout





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## X86 vs X64 Virtual to Physical Address Translation



#### References

- Windows
  - Windows Internals 7<sup>th</sup> Ed Part1 Alex Ionescu/Mark Russinovich
  - Windows Internals 7<sup>th</sup> Ed Part2 Alex Ionescu/Mark Russinovich
  - Windows via C/C++ Jeffrey Richter
- Linux
  - Understanding the Linux Kernel Daniel Bovet/Macro Cesati
  - The Linux Programming Interface Micheal Kerrisk

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# Thank You



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