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Windows Operating System Internals Curriculum Resource Kit (CRK)

Author(s) [Polze, Andreas](#)
[Rusinovich, Mark E.](#)
[Solomon, David A.](#)

Short Description The Windows Operating System Internals Curriculum Resource Kit ("CRK") is a pool of teaching material and resources that explains the internals of the Microsoft Windows XP and Windows Server 2003 operating system family based on the book Windows Internals, 4th edition (Microsoft Press).

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Overview

**** Revised and Extended on 16 February 2006 ****

The Windows Operating Systems Internals Curriculum Resource Kit (CRK) is a pool of material and resources that explains operating systems (OS) concepts based on the Microsoft Windows XP and Windows Server 2003 operating system family, structured following the ACM/IEEE Operating System Body of Knowledge (BOK) as defined in Computing Curriculum 2001 project by the Joint IEEE and ACM Task Force (CC2001).

The CRK is based on the book Windows Internals, 4th edition (Microsoft Press, 2004) by Mark Russinovich and David Solomon. The experiments, lab descriptions, quizzes, and assignments, which are an integral part of the course materials, have been tested over the last five years in context of an Operating Systems Architecture class taught by Andreas Polze at Humboldt University of Berlin and Hasso-Plattner-Institute at University Potsdam, Germany.

This revised CRK includes 9 new units:

- OS6 - Device Management
- OS8 - File System
- OS9 - Real-Time and Embedded Systems
- OS10 - Fault-tolerance
- OS11 - System Performance Evaluation and Troubleshooting
- OS12 - Scripting
- OS-A - Windows Networking
- OS-B - Comparing the Linux and Windows Kernels
- OS-C - Windows-Unix Interoperability

The other units have been updated to include a new slide at the end of each PowerPoint with references to the relevant Windows Research Kernel (WRK) source files (where applicable).

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Computer Science Areas

- Operating Systems > Concurrency
- Operating Systems > Device Management
- Operating Systems > Fault Tolerance
- Operating Systems > File Systems
- Operating Systems > Memory Management
- Operating Systems > Operating System Principles
- Operating Systems > Overview of Operating Systems
- Operating Systems > Real-time and Embedded Systems
- Operating Systems > Scheduling and Dispatch
- Operating Systems > Scripting
- Operating Systems > Security and Protection
- Operating Systems > System Performance Evaluation

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Curriculum Details

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Related Resources

1. [Comparing the Linux and Windows Kernels -- CRK Unit OS-B](#)
2. [Concurrency -- CRK Unit OS3](#)
3. [Device Management - The Input/Output System -- CRK Unit OS6](#)
4. [Fault-tolerances -- CRK Unit OS10](#)
5. [File System -- CRK Unit OS8](#)
6. [Memory Management -- CRK Unit OS5](#)
7. [Operating System Principles -- CRK Unit OS2](#)
8. [Overview of Operating Systems -- CRK Unit OS1](#)
9. [Performance Evaluations -- CRK Unit OS11](#)
10. [ProjectOZ](#)
11. [Protection and Security -- CRK Unit OS7](#)
12. [Real-time and Embedded Systems -- CRK Unit OS9](#)
13. [Scheduling and Dispatch -- CRK Unit OS4](#)
14. [Scripting -- CRK Unit OS12](#)
15. [Windows - Unix Interoperability -- CRK Unit OS-C](#)
16. [Windows Networking -- CRK Unit OS-A](#)
17. [Windows Operating System Internals Curriculum Resource Kit \(CRK\) - Labs for Windows 7](#)
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