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Bryant and O [Hallaron, Computer Systems: A Programmer [s ...

Carnegie Mellon Bryant and O [Hallaron, Computer Systems: A Programmer [s Perspective, Third Edition Unix I/O Overview Elegant mapping of files to devices allows kernel to export simple interface called Unix I/O: Opening and closing files open()and close() Reading and writing a file read()and write() Changing the current file position (seek)

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Bryant and O'Hallaron, Computer Systems: A Programmer's Perspective, Third Edition Shell Programs A shell is an application program that runs programs on behalf of the user

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Bryant and O'Hallaron, Computer Systems: A Programmer's Perspective, Third Edition 10 Carnegie Mellon Great Reality #3: Memory Matters Random Access Memory Is an Unphysical Abstraction Memory is not unbounded It must be allocated and managed Many applications are memory dominated Memory referencing bugs especially pernicious

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CS:APP3e Web Aside ASM:EASM: Combining Assembly Code ...

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