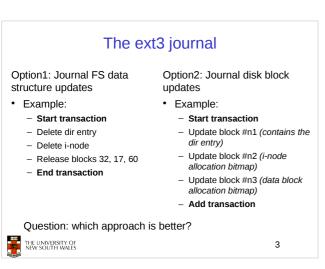
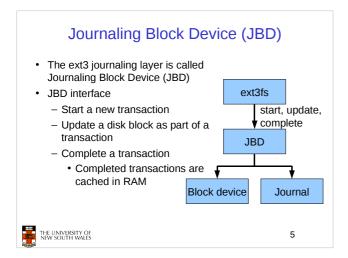


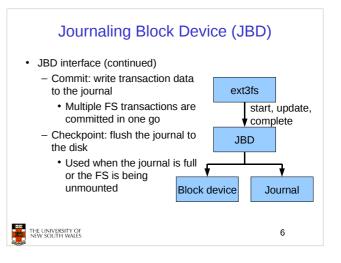
2

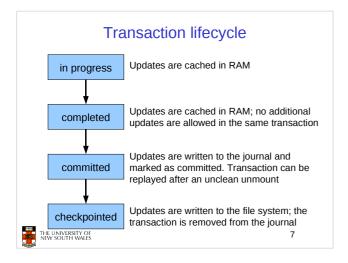




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Journaling modes

- Ext3 supports two journaling modes
 - Metadata+data
 - Enforces atomicity of all FS operations
 - Metadata journaling
 - Metadata is journaled
 - Data blocks are written directly to the disk
 - Improves performance
 - · Enforces file system integrity
 - Does not enforce atomicity of write's



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JBD

- JBD can keep the journal on a block device or in a file
 - Enables compatibility with ext2 (the journal is just a normal file)
- JBD is independent of ext3-specific data structures
 - Separation of concerns
 - The FS maintains on-disk data and metadata
 - JBD takes care of journaling
 - Code reuse
 - JBD can be used by any other FS that requires journaling



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