**ITRI Hypervisor Test Case**

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| **Metadata (Descriptions of the test case)** | |
| **Test case ID** | FT-IOV-0004 |
| **Test case name** | Transfer a small file (10MB) back and forth between 2 Guest VMs for long times with 1 Guest VM in heavy load |
| **Category** | I/O Virtualization |
| **Designer** | Chia Hung Kao |
| **Reviewer** |  |
| **Modified time** | 04/08/2013 |

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| **Precondition (Conditions that must exist to support the test case)** | |
| **Kernel configuration** | L S - - N B |
| **Host setting** | * CPU: 1 CPU * Memory: 1024 MB RAM * OS: Linux * Network configuration: 192.168.101.2 * Storage configuration: |
| **Guest VM setting** | * CPU: 1 virtual CPU * Memory: 64 MB RAM * OS: Linux * Network configuration: 192.168.20.2 - 4 * Storage configuration: NFS |
| **Environment setting** | Host machine is on without any additional process |
| **Steps** | 1. Launch Host machine 2. Launch Guest VM 3 with heavy load |

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| **Process (Steps to be executed to complete the test)** |
| 1. Login to Host machine 2. Launch Guest VM 1 3. Launch Guest VM 2 4. Create a file by dd on Host machine 5. Generate md5 of the file 6. Copy this file to Guest VM1 7. Generate md5 of the copied file 8. Compare copied file’s md5 with original file 9. Copy this file from Guest VM1 to Guest VM2 10. Generate md5 of the copied file 11. Compare copied file’s md5 with original file 12. Delete file in Guest VM1 13. Copy the file from Guest VM2 to Guest VM1 14. Generate md5 of the copied file 15. Compare copied file’s md5 with original file 16. Delete file in Guest VM2 17. Repeat 9-16 |

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| **Evaluation (Steps to be examined to evaluate the test result)** |
| 1. All the md5 checksums are the same |

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| **Post process (Steps to be executed to restore the system state)** |
| 1. Shut down Guest VMs 2. Shut down Host machine |

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| **Related scripts (Scripts used in this test case)** |
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