**ITRI Hypervisor Test Case**

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| **Metadata (Descriptions of the test case)** | |
| **Test case ID** | FT-IOV-0016 |
| **Test case name** | Transfer a small file (10MB) back and forth between 2 Guest VMs (2 in heavy load) for long times with 1 Guest VM in heavy load |
| **Category** | I/O Virtualization |
| **Designer** | Chia Hung Kao |
| **Reviewer** |  |
| **Modified time** | 04/16/2013 |

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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. Deploy heavy load on Guest VM1 10. Deploy heavy load on Guest VM2 11. Copy this file from Guest VM1 to Guest VM2 12. Generate md5 of the copied file 13. Compare copied file’s md5 with original file 14. Delete file in Guest VM1 15. Copy the file from Guest VM2 to Guest VM1 16. Generate md5 of the copied file 17. Compare copied file’s md5 with original file 18. Delete file in Guest VM2 19. Repeat 11-18 |

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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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