



16.03 Enterprise RPB Debian Test Report

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| Date | 2016-03-02 |
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Configuration

| Item | Explanation |
|--------------------------------|---|
| Kernel | 4.4.0-104-arm64 |
| Debian version | 8.3 Jessie |
| Toolchain version | gcc (Debian/Linaro 4.9.2-10) 4.9.2 |
| Board Firmware (AMD Overdrive) | AMI BIOS for Overdrive B0 - 0.0.8.5 / 1.0.0.1 |
| Board Firmware (HiSilicon D02) | EDK2 Build 49 |

Glossary

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|-------|
| Pass |
| Skip |
| Fails |

Manual Test Results

AMD Overdrive

| Test Run | Result | Comments |
|-------------------------|--------|--|
| PXE Boot | Pass | |
| Boot from SATA | Pass | |
| Serial Console Output | Pass | |
| Re-boot | Pass | |
| Shutdown | Pass | |
| KVM (32 bit guest) | Pass | |
| KVM (64 bit guest) | Pass | |
| Ethernet (single NIC) | Pass | |
| Ethernet (multiple NIC) | Pass | Onboard (2 interfaces) + e1000e PCIe |
| SATA write speed | Pass | constant speed with increasing file size |
| SATA read speed | Pass | |
| PCIe 2x | Pass | Intel e1000e NIC |
| PCIe 4x | Skip | |
| PCIe 8x | Skip | |
| Real Time Clock | Pass | RTC_UIE_ON, RTC_AIE_ON not implemented |
| LAMP | Pass | |
| OpenStack | Pass | KVM available |
| Hadoop | Pass | |
| OpenJDK 8 | Pass | |

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|-----------|------|--|
| Blogbench | Pass | |
|-----------|------|--|

D02

| Test Run | Result | Comments |
|-------------------------|--------|-----------------------------------|
| PXE Boot | Pass | |
| Boot from SATA | Fail | Bug 2079 |
| Boot from SAS | Fail | Bug 2110 |
| Serial Console Output | Pass | |
| Re-boot | Pass | |
| Shutdown | Fail | Bug 2106 |
| KVM (32 bit guest) | Skip | |
| KVM (64 bit guest) | Skip | |
| Ethernet (single NIC) | Pass | |
| Ethernet (multiple NIC) | Pass | Onboard + PCIe Realtek Nic |
| SAS write speed | Fail | Bug 2113 |
| SAS read speed | Pass | 195 MB/s |
| PCIe 2x | Pass | Realtek NIC |
| PCIe 4x | Skip | |
| PCIe 8x | Pass | Intel 82599ES 10-Gigabit SFI/SFP+ |
| OpenStack | Skip | |
| Hadoop | Pass | |
| OpenJDK 8 | Pass | |
| Blogbench | Pass | |

Open Bugs

| Bug Description | Bug-id | Status |
|---|--------------------------|---------|
| [RPB] D02- shutdown works as reboot | Bug 2106 | CONF |
| [RPB] Placing D02 under major stress and SAS driver starts to have errors | Bug 2100 | CONF |
| [RPB] kernel fails to build on amd64 | Bug 2097 | CONF |
| [RPB] D02- CentOS installer fails to detect SATA drive | Bug 2085 | CONF |
| [RPB] D02- Sometimes root partition is missing when booting Debian/CentOS | Bug 2079 | CONF |
| [RPB] D02- Selected item in BIOS is not highlighted in minicom | Bug 2069 | CONF |
| [RPB] D02- Detailed information about firmware version is needed | Bug 2068 | CONF |
| [RPB] irq 5: nobody cared (try booting with the "irqpoll" option when rebooting the system) | Bug 2067 | CONF |
| QEMU can't launch an instance with more than 30GB RAM | Bug 2066 | IN_PROG |