



16.03 Enterprise RPB

CentOS

Test Report

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Configuration

Item	Explanation
Kernel	4.4.0-104-arm64
CentOS version	7.2.1511 AltArch
Toolchain version	gcc version 4.8.3 20140911 (Red Hat 4.8.3-9)
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

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)	Fail	Bug 2105
KVM (64 bit guest)	Pass	
Ethernet (single NIC)	Pass	
Ethernet (multiple NIC)	Skip	
SATA write speed	Pass	constant speed with increasing file size
SATA read speed	Pass	
Real Time Clock	Pass	RTC_UIE_ON, RTC_AIE_ON not implemented
LAMP	Pass	
OpenStack	Pass	
Hadoop	Pass	
OpenJDK 8	Skip	Package not available
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	Fail	Bug 2079 Bug 2110
Shutdown	Fail	Bug 2106
KVM (32 bit guest)	Fail	Bug 2105
KVM (64 bit guest)	Fail	Bug 2105
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
Real Time Clock	Skip	RTC_UIE_ON, RTC_AIE_ON not implemented
LAMP	Skip	
OpenStack	Skip	
Hadoop	Pass	
OpenJDK 8	Skip	Package not available

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: Booting CentOS Linux failed	Bug 2086	IN_PROG
[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
[RPB] UEFI fails to load grub from SAS drive after warm reboot	Bug 2110	NEW
[RPB] D02- IO stress test on SAS drive crashes the system	Bug 2113	NEW