

HSRP V1.5 Standard Benchmark Report

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1. Summary

Standard		Items	HSRP_V1.5_REP2_HXT1.1_48	HSRP_V1.5_REP2_HXT1.1_40	HSRP_V1.5_REP2_AW2.2_40	HSRP_V1.5_REP1_HXT1.1_48
SPECCPU	int		705	624	610	N/A
SPECCPU	fp		663	606	594	N/A
SPECjbb	max_jops		38471	32895	32393	N/A
	critical_jops		20594	15802	15309	N/A
1 Mb an ab		memory_latency(ns)	118.484	N/A	N/A	N/A
LMbench	memory_stream(MB/s)		118079.36	N/A	N/A	N/A
FIO	NVMe	sequency_read(MB/s)	N/A	N/A	N/A	3189
		sequency_write(MB/s)	N/A	N/A	N/A	2645
		randread(kIOPS)	N/A	N/A	N/A	682
		randwrite(kIOPS)	N/A	N/A	N/A	110
	SSD	sequency_read(MB/s)	N/A	N/A	N/A	543
		sequency_write(MB/s)	N/A	N/A	N/A	487
		randread(kIOPS)	N/A	N/A	N/A	80.6
		randwrite(kIOPS)	N/A	N/A	N/A	24.9

2. SOC Configuration

NAME	HSRP_V1.5_REP2_HXT1.1_48	HSRP_V1.5_REP2_HXT1.1_40	HSRP_V1.5_REP2_AW2.2_40	HSRP_V1.5_REP1_HXT1.1_48
CPU_Type	HXT1.1	HXT1.1	AW2.2	HXT1.1
Total_Socket	1	1	1	1
Cores_per_Socket	48	40	40	48
Threads_per_Core	1	1	1	1
Total_Threads	48	40	40	48
CPU_Frequency	2600.00	2600.00	2500.00	2600.00
CPU_Max_Frequency				
CPU_Min_Frequency				
L1_Cache_Size	32K/64K	32K/64K	32K/64K	32K/64K
L2_Cache_Size	512K	512K	512K	512K
L3_Cache_Size	61440K	61440K	61440K	61440K

3. Hardware Configuration



NAME	HSRP_V1.5_REP2_HXT1.1_48	HSRP_V1.5_REP2_HXT1.1_40	HSRP_V1.5_REP2_AW2.2_40	HSRP_V1.5_REP1_HXT1.1_48
Platform	REP2	REP2	REP2	REP1
Memory_Total_Size	192G	192G	192G	96G
Total_Memory	6	6	6	6
Memory_Speed	2666MHz	2666MHz	2666MHz	2666MHz
Memory_Configured_Clock	1333MHz	1333MHz	1333MHz	1333MHz
NIC_Info	eth0 speed: driver: vendor: bus: eth1 speed: driver: vendor: bus: enP3p1510G speed: 50G driver: mk5_core vendor: bus: 0003:01:00.0	enP3p1s0 speed: 100G driver: mlx5_core vendor: Mellanox bus: 0003:01:00,0	enP3p1s0 speed: 100G driver: mix5, core vendor: Mellanox bus: 0003:01:00,0	eth0 speed: driver: vendor: bus: eth1 speed: driver: vendor: bus: enP3p1sI0 speed: 100G driver: mb5_core vendor: Mellanox bus: 0003:01:00.0
Disk_Info	sda size: type: type: interface: lo_scheduler: vendor: sdb size: type: interface: lo_scheduler: vendor: sdb size: type: interface: lo_scheduler: vendor: sdb size: 480G type: SSD interface: sfb size: 480G type: SSD interface: smsung wendor: samsung wendor: samsung interface: stype: ssp: spo Sype: SSD interface: NVMe lo_scheduler: noop vendor: toshiba	sdb size: 480G type: SSD tinterface: SATA lo_scheduler: noop vendor: samsung nvme0n1 size: 900G type: SSD tinterface: RVMe lo_scheduler: noop vendor: toshiba	sdb size: 480G type: SSD tinterface: SATA lo_scheduler: noop vendor: samsung nvmc0n1 size: 900G type: SSD interface: NVMe lo_scheduler: noop vendor: toshiba	sda size: type: type: interface: io_scheduler: vendor: sdb size: type: interface: io_scheduler: vendor: sdb size: 480G type: SSD interface: sare size: 480G type: SSD interface: SATA io_scheduler: vendor: samsung memory sub size: 480G type: SSD interface: SATA io_scheduler: noop vendor: samsung memory sub size: 480G type: SSD interface: NVM io_scheduler: noop vendor: toshiba
PCIe_Info	0000:00:00 PCI bridge: Guizhou Huaxintong Semiconductor Technology Co., Ltd StarDragon4800 PCI Express Root Port 0000:01:00.00 Serial Attached SCSI controller: Adaptec Device 258' (rev Dridge: Guizhou Huaxintong 000:10:00.00 PCI bridge: Guizhou Huaxintong Semiconductor Technology Co., Ltd StarDragon4800 PCI 0002:00:00.00 PCI bridge: Guizhou Huaxintong Semiconductor Technology Co., Ltd StarDragon4800 PCI Express Root Port 0002:00:00.00 PCI bridge: SPEED Technology, Inc. AST1150 PCI-to-PCI Bridge (rev 04) 0002:00:00.00 CNA compatible controller: ASPEED Technology, Inc. ASPEED Graphics Family (rev 41) 0003:00:00.00 PCI bridge: Guizhou Huaxintong Semiconductor Technology Co., Ltd StarDragon4800 PCI Express Root Port 0003:00:00.00 PCI bridge: Guizhou Huaxintong Semiconductor Technology Co., Ltd StarDragon4800 PCI Express Root Port	000:00:00.0 PCI bridge: Qualcomm Datacenter Technologies QDF2400 PCI Express Root Port 0000:01:00.0 Serial Attached SCSI controller: Adaptece Device 028f (rev. 01) 0001:00:00.0 PCI bridge: Qualcomm Datacenter Technologies QDF2400 PCI Express Root Port 0002:00:00.0 PCI bridge: Qualcomm Datacenter Technologies QDF2400 PCI Express Root Port 0002:00:00.0 PCI bridge: Qualcomm Datacenter Technologies QDF2400 PCI Express Root Port 0002:01:00.0 PCI bridge: ASPEED Technology, Inc. AST1150 PCI-40-PCI Bridge (rev. 04) 0002:00:20:00.0 VGA compatible controller: ASPEED Technology, Inc. ASPEED Graphics Family (rev. 04) 000:00:00:00.0 PCI bridge: Qualcomm Datacenter Technologies, IOP2400 PCI Express Root Port 0003:01:00.0 Ethernet controller: Mellanox Technologies MT27800 Family [ConnectX-5]	0000:00:00.0 PCI bridge: Qualcomm Datacenter Technologies QDF2400 PCI Express Root Port 0000:01:00.0 Serial Attached SCI controller: Adapte: Device QDF2400 PCI Express Root Port 0000:00:00:00.0 PCI bridge: Qualcomm Datacenter O000:00:00.0 PCI bridge: Qualcomm Datacenter Datacenter PCI	0000:00:00.0 PCI bridge: Guizhou Huaxintong Semiconductor Technology Co., Ltd StarDragon4800 PCI Express Root Port 0000:01:00.0 Serial Attached SCSI controller: Adaptec 0000:01:00.0 Serial Attached SCSI controller: Adaptec 0000:01:00.0 PCI bridge: Guizhou Huaxintong 0000:00.0 PCI bridge: Guizhou Huaxintong 0000:00.00 PCI bridge: Guizhou Huaxintong 0000:00.00 PCI bridge: SUBJECT STARDRAGON PCI 0000:00.00 PCI bridge: SPEED Technology, Inc. AST1150 PCI-to-PCI Bridge (rev O4) 0000:00:00.00 PCI bridge: ASPEED Technology, Inc. ASPEED Technology, Inc. ASPEED Graphics Family (rev 41) 0000:00:00:00:00 PCI bridge: SPEED Technology, Inc. ASPEED Technology, Inc. ASPEED Graphics Family (rev 41) 0000:00:00:00:00 PCI bridge: Guizhou Huaxintong Semiconductor Technology Co., Ltd StarDragon4800 PCI Express Root Pol bridge: Guizhou Huaxintong Semiconductor Technology Co., Ltd StarDragon4800 PCI Express Root Pol bridge: Guizhou Huaxintong Semiconductor Technology Co., Ltd StarDragon4800 PCI Express Root Pol bridge: Guizhou Huaxintong Semiconductor Technology Co., Ltd StarDragon4800 PCI Express Root Pol bridge: Guizhou Huaxintong Semiconductor Technology Co., Ltd StarDragon4800 PCI Express Root Pol bridge: Guizhou Huaxintong Semiconductor Technology Co., Ltd StarDragon4800 PCI Express Root Pol bridge: Guizhou Huaxintong Semiconductor Technology Co., Ltd StarDragon4800 PCI Express Root Pol bridge: Guizhou Huaxintong Semiconductor Technology Co., Ltd StarDragon4800 PCI Express Root Pol bridge: Guizhou Huaxintong

4. Software Configuration

NAME	HSRP_V1.5_REP2_HXT1.1_48	HSRP_V1.5_REP2_HXT1.1_40	HSRP_V1.5_REP2_AW2.2_40	HSRP_V1.5_REP1_HXT1.1_48
os	Centos7.5	Centos7.5	Centos7.5	Centos7.5
Linux_Kernel	4.14.81-1	4.14.81-1	4.14.81-1	4.14.81-1
BIOS	0ACJA565 11/22/2018	0ACJA565 12/17/2018	0ACJA565 12/24/2018	0ACJA565 11/22/2018
GCC	4.8.5_20150623	4.8.5_20150623	4.8.5_20150623	4.8.5_20150623
GLIBC	2.17-222.el7	2.17-222.el7	2.17-222.el7	2.17-222.el7
JAVA	openjdk_1.8.0.191	openjdk_1.8.0.191	openjdk_1.8.0.191	openjdk_1.8.0.191
SPEC_CPU	2006	2006	2006	2006
SPEC_JBB	2015	2015	2015	2015
Lmbench				
Iperf	3	3	3	3
FIO	3.3	3.3	3.3	3.3

5. System Setting

NAME	HSRP_V1.5_REP2_HXT1.1_48	HSRP_V1.5_REP2_HXT1.1_40	HSRP_V1.5_REP2_AW2.2_40	HSRP_V1.5_REP1_HXT1.1_48
CPU_Avaiable_Govorner	conservative ondemand userspace powersave performance schedutil			
CPU_Current_Govorner	conservative	conservative	conservative	conservative
IRQ_Balance_Status	active	active	active	active
Tuned_Profile	balanced	balanced	balanced	balanced
Firewall_Status	inactive	inactive	inactive	inactive
Auditd_Status	inactive	inactive	inactive	inactive
Customization		N/A		

