



# **HSRP V1.4 Standard Benchmark Report**

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## 1. Summary

Standard	Items		HSRP_V1.4_REP2_HXT1.0_48	HSRP_V1.4_REP2_AW2.1_46
SPEC CPU	int		629	608
	fp		621	607
LMbench	memory_latency(ns)		120.4	120.4
	memory_stream(MB/s)		N/A	118477.16
iPerf	100G	bi_direction(Gbps)	184	N/A
		uni_direction(Gbps)	92	N/A
FIO	NVMe	sequency_read(MB/s)	3366	N/A
		sequency_write(MB/s)	2689	N/A
		randread(kIOPS)	683	N/A
		randwrite(kIOPS)	118	N/A
	SSD	sequency_read(MB/s)	563	N/A
		sequency_write(MB/s)	534	N/A
		randread(kIOPS)	83.3	N/A
		randwrite(kIOPS)	39.2	N/A

## 2. SOC Configuration

NAME	HSRP_V1.4_REP2_HXT1.0_48	HSRP_V1.4_REP2_AW2.1_46
CPU_Type	HXT1.0	AW2.1
Total_Socket	1	1
Cores_per_Socket	48	46
Threads_per_Core	1	1
Total_Threads	48	46
CPU_Frequency	2600.00	2600.00
CPU_Max_Frequency	2600.00	2600.00
CPU_Min_Frequency	600.00	600.00
L1_Cache_Size	32K/64K	32K/64K
L2_Cache_Size	512K	512K
L3_Cache_Size	61440K	61440K

## 3. Hardware Configuration

NAME	HSRP_V1.4_REP2_HXT1.0_48	HSRP_V1.4_REP2_AW2.1_46
Platform	REP2	REP2
Memory_Total_Size	192G	192G
Total_Memory	6	6
Memory_Speed	2666MHz	2666MHz
Memory_Configured_Clock	1333MHz	1333MHz
NIC_Info	enP3p1s0 speed: 100G driver: mlx5_core vendor: Mellanox bus: 0003:01:00.0	enP3p1s0 speed: 100G driver: mlx5_core vendor: Mellanox bus: 0003:01:00.0
Disk_Info	sdb size: 480G type: SSD interface: SATA io_scheduler: noop vendor: samsung nvme0n1 size: 900G type: SSD interface: NVMe io_scheduler: noop vendor: toshiba	sdb size: 480G type: SSD interface: SATA io_scheduler: noop vendor: samsung nvme0n1 size: 900G type: SSD interface: NVMe io_scheduler: noop vendor: toshiba
PCIe_Info	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 Device 028f (rev 01) 0001:00:00.0 PCI bridge: Guizhou Huaxintong Semiconductor Technology Co.,Ltd StarDragon4800 PCI Express Root Port 0002:00:00.0 PCI bridge: Guizhou Huaxintong Semiconductor Technology Co.,Ltd StarDragon4800 PCI Express Root Port 0002:01:00.0 PCI bridge: ASPEED Technology, Inc. AST1150 PCI-to-PCI Bridge (rev 04) 0002:02:00.0 VGA compatible controller: ASPEED Technology, Inc. ASPEED Graphics Family (rev 41) 0003:00:00.0 PCI bridge: Guizhou Huaxintong Semiconductor Technology Co.,Ltd StarDragon4800 PCI Express Root Port 0003:01:00.0 Ethernet controller: Mellanox Technologies MT27800 Family [ConnectX-5]	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 Device 028f (rev 01) 0001:00:00.0 PCI bridge: Guizhou Huaxintong Semiconductor Technology Co.,Ltd StarDragon4800 PCI Express Root Port 0002:00:00.0 PCI bridge: Guizhou Huaxintong Semiconductor Technology Co.,Ltd StarDragon4800 PCI Express Root Port 0002:01:00.0 PCI bridge: ASPEED Technology, Inc. AST1150 PCI-to-PCI Bridge (rev 04) 0002:02:00.0 VGA compatible controller: ASPEED Technology, Inc. ASPEED Graphics Family (rev 41) 0003:00:00.0 PCI bridge: Guizhou Huaxintong Semiconductor Technology Co.,Ltd StarDragon4800 PCI Express Root Port 0003:01:00.0 Ethernet controller: Mellanox Technologies MT27800 Family [ConnectX-5]

## 4. Software Configuration

NAME	HSRP_V1.4_REP2_HXT1.0_48	HSRP_V1.4_REP2_AW2.1_46
OS	Centos7.5	Centos7.5
Linux_Kernel	4.14.62-4	4.14.62-4
BIOS	0ACJA560 09/07/2018	0ACJA560 09/07/2018
GCC	4.8.5_20150623	4.8.5_20150623
GLIBC	2.17-222.el7	2.17-222.el7
JAVA	openjdk_1.8.0.171	openjdk_1.8.0.171
SPEC_CPU	2006	2006
SPEC_JBB	2015	2015
Lmbench		
Iperf	3	3
FIO	3.3	3.3

## 5. System Setting

NAME	HSRP_V1.4_REP2_HXT1.0_48	HSRP_V1.4_REP2_AW2.1_46
CPU_Available_Governor	conservative ondemand userspace powersave performance schedutil	conservative ondemand userspace powersave performance schedutil
CPU_Current_Governor	conservative	conservative
IRQ_Balance_Status	active	active
Tuned_Profile	balanced	balanced
Firewall_Status	inactive	inactive
Auditd_Status	inactive	inactive
Customization		