Information

Shared Storage : SSD Performance with HD Capacity 1GB/s

HyPerDDP12D

HyPer DDP12D 2U with SSD4, 1TB cache and HD4, 8TB packs

* Each DDP comes with dual 10GbE/RJ45 ports and 2 extra PCIe slots for cards
* Includes V5 scale out DDP Ethernet SAN software
* Modular and capacity and bandwidth expandable within one file system
* SSD and HD packs are Raid protected
* The HyPerDDP12D has 4 spare slots for additional SSD and HD packs
* The HyPerDDP12D solely comes with 1 year warranty, see Delivery Conditions on www.ddpsan.com
* Support can be purchased for 1200,- Euro per year, see Support on www.ddpsan.com
* Available desktop drivers are always free. DDP updates are part of a support contract
* The DDP components are of the shelf and replacements can be purchased locally
* Archiware P5 is installed. Ask your dealer to purchase a license
* Can be delivered with Kyno MAM licenses. Check www.lesspain.de for prices
* Sliding arms can be supplied for 165,- Euro
* Functions with all applications and MAM systems

Video, audio and film formats example on reading	1GB/s Ethernet SAN HyPerDDP12D
4K, UHD, 3840x2160, 10 bit, 25fr/s, 840 MB/s	1
4K, with Canon EOS C500, 4096x2160, 10bit, 24fr/s,300MB/s	3
Arriraw Open Gate, 3414x2198, 24fr/s, 270 MB/s	4
4K,5K,6K Redcode, higest resolution and framerate,180MB/s	5
3K, Arriraw, 24 fr/s, 168 MB/s	6
4K, Sony, F55/F700 raw, 16bit, 24fr/s, 120 MB/s	8
HDCAMSR 444, 110 MB/s	9
HDCAMSR, 75 MB/s	13
DNxHD444, 55 MB/s	17
ProRes4444, 42 MB/s	23
4K, R3D, 40 MB/s	25
4K, Sony XAVC422, 10 bit, 30 MB/s	33
DNxHD220, 28 MB/s	35
ProRes HQ, 1080i60, 720p60, 1080p30, 28 MB/s	35
DNxHD185, 24 MB/s	41
ProRes HQ, 1080i50, 720p50, 1080p25, 24 MB/s	41
DNxHD145, 18 MB/s	55
HDCAM, 20 MB/s	50
Audio, 24 bit, 48 KHz, 100 tracks, 15 MB/s	66

The stream count values in the table are minimum values for the DDP. The stream count of any format you use can be obtained by dividing 1000MB/bandwidth of your format. File data transparently can be moved/copied within the DDP between Data Locations without changing the file path. Therefore having an SSD Data pack and Data Locations has several advantages:

1. Audio, DPX and low bandwidth video formats which give bad performance (seek time issues) with spindles, can be kept or consolidated on SSD's. That way they do not influence the spindle performance of regular video formats.

2. If needed you can split copying/rendering from streaming with streaming materials on SSDs to prevent drop frames.

3. Because bandwidth of SSDs and spindles add up the DDP has a bandwidth of 1 GB/s plus the spindle bandwidth. The DDP also includes SSD cache algorithms. They can be activated per folder volume to:
4. Files ingest directly to SSD and are duplicated to spindles. The latest project is then on SSD and also on spindles.
5. Pin folder volume project material from HD to SSD or vice versa.
6. Copy file content within folder volumes on demand to SSD.

Note: bandwidth during sustained writing or combining R/W may be lower.

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