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GVP HSG Pages

MCP IOPS

MCP IOPS

A single HDD local hard drive was used for testing because the HDD itself could become the bottleneck. These tests focus on disk IOPS measurement and calculation, and certain real deployment scenarios require that a local drive not be used. Thus, the measurement for MCP IOPS is useful to calculate overall IO requirement. The three tables below offer three typical MCP IOPS configurations:

Table: MCP IOPS on physical server of single hex core, MP3 only

Ports Total	Physical MCP IOPS (kbps)		
	Read	Write	
60	21.88	14.93	6.95
120	43.25	29.64	13.60
180	63.28	43.37	19.91
200	71.47	49.35	22.12
210	74.95	51.58	23.37
220	78.40	53.93	24.47
230	82.51	56.83	25.68
240	85.28	58.37	26.90

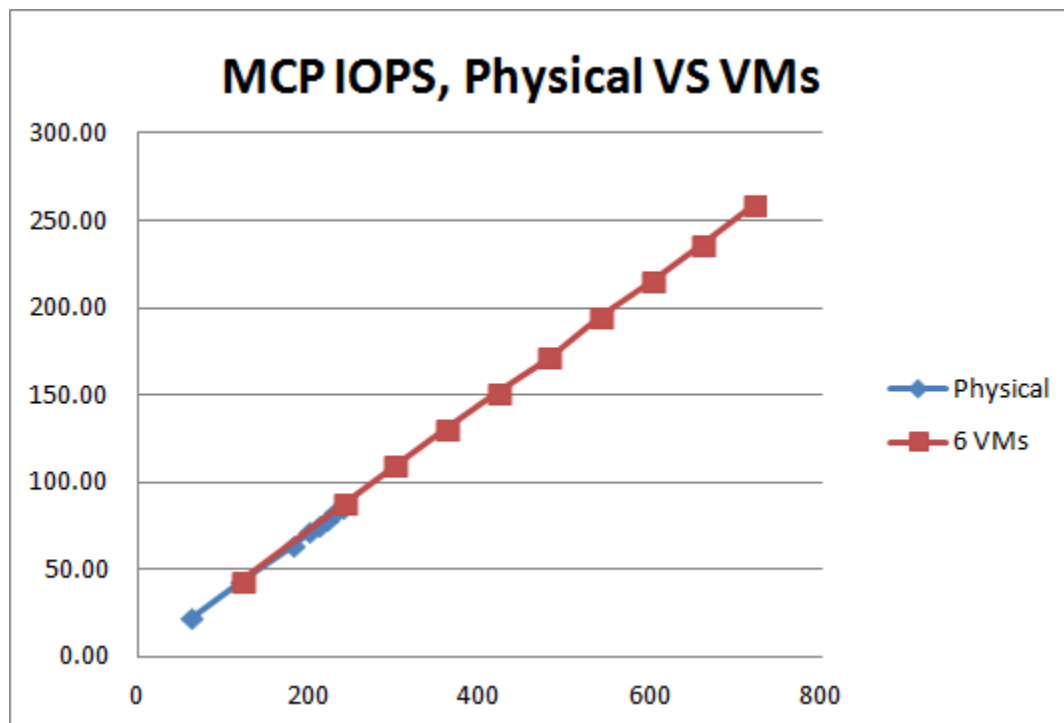
Table: MCP IOPS on 6 VMs of dual hex core, MP3 only

MP3 only Ports Total	Overall 6 VM MCP IOPS (kbps)		
	Read	Write	
120	43.672	29.679	13.993
240	87.477	59.280	28.197
300	109.292	73.848	35.445
360	130.965	88.917	42.047
420	151.706	103.095	48.611
480	171.290	116.053	55.237
540	194.772	132.867	61.905
600	215.101	146.882	68.219
660	236.654	161.990	74.664
720	259.100	177.279	81.820

Table: MCP IOPS on 6 VMs of dual hex core, MP3 + wav

MP3 + wav Ports	Overall 6 VM MCP IOPS (kbps)		
	Total	Read	Write
120	173.607	146.092	27.515
240	348.369	292.884	55.486
300	434.511	364.898	69.613
360	522.447	439.412	83.035
420	600.880	504.682	96.198
480	693.861	583.965	109.896
540	780.187	656.958	123.229
600	859.359	722.907	136.453
660	790.737	664.024	126.713

The graph below compares the two tables **MCP IOPS on physical server of single hex core, MP3 only** and **MCP IOPS on 6 VMs of dual hex core, MP3 only**:

**Figure 40: MCP IOPS, Physical VS VMs**

The graph below compares the two tables **MCP IOPS on 6 VMs of dual hex core, MP3 only** and **MCP IOPS on 6 VMs of dual hex core, MP3 + wav**:

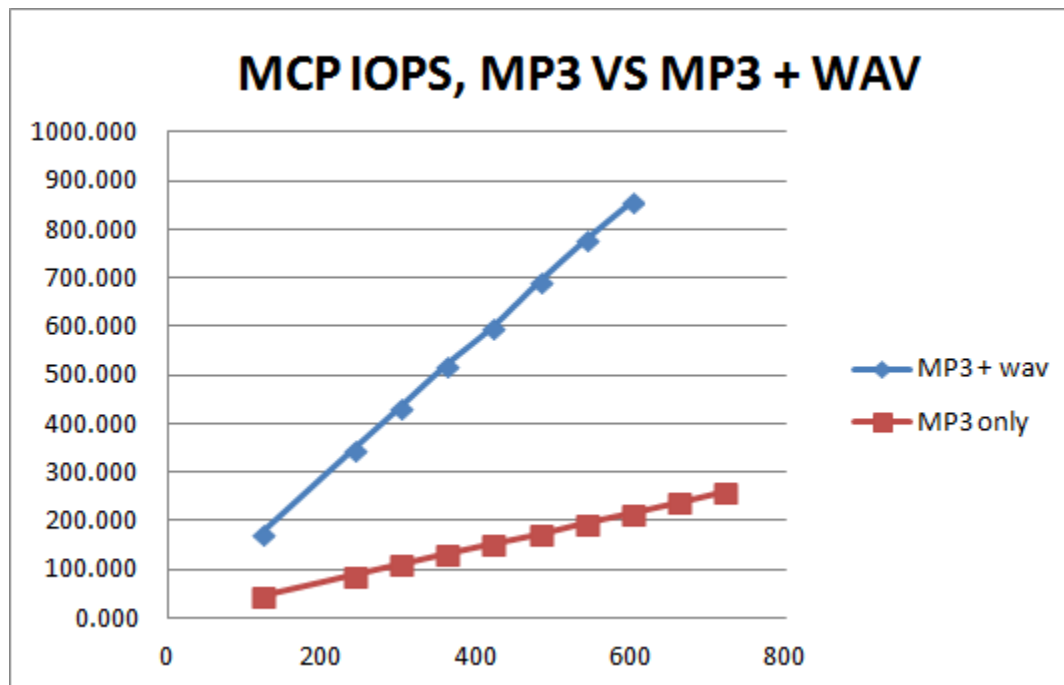


Figure 41: MCP IOPS, MP3 only VS MP3 + WAV

The MCP IOPS is related to the test profile and ports, but on the same physical server and VMs.