Throughput required to move Y bytes in X time

Bits per second throughput

Data set size	1 Minute	5 Minutes	20 Minutes	1 Hour
10PB	1,333.33 Tbps	266.67 Tbps	66.67 Tbps	22.22 Tbps
1PB	133.33 Tbps	26.67 Tbps	6.67 Tbps	2.22 Tbps
100TB	13.33 Tbps	2.67 Tbps	666.67 Gbps	222.22 Gbps
10TB	1.33 Tbps	266.67 Gbps	66.67 Gbps	22.22 Gbps
1TB	133.33 Gbps	26.67 Gbps	6.67 Gbps	2.22 Gbps
100GB	13.33 Gbps	2.67 Gbps	666.67 Mbps	222.22 Mbps
10GB	1.33 Gbps	266.67 Mbps	66.67 Mbps	22.22 Mbps
1GB	133.33 Mbps	26.67 Mbps	6.67 Mbps	2.22 Mbps
100MB	13.33 Mbps	2.67 Mbps	0.67 Mbps	0.22 Mbps
	Time to transfer			

Data set size	8 Hours	24 Hours	7 Days	30 Days
1XB	277.78 Tbps	92.59 Tbps	13.23 Tbps	3.09 Tbps
100PB	27.78 Tbps	9.26 Tbps	1.32 Tbps	308.64 Gbps
10PB	2.78 Tbps	925.93 Gbps	132.28 Gbps	30.86 Gbps
1PB	277.78 Gbps	92.59 Gbps	13.23 Gbps	3.09 Gbps
100TB	27.78 Gbps	9.26 Gbps	1.32 Gbps	308.64 Mbps
10TB	2.78 Gbps	925.93 Mbps	132.28 Mbps	30.86 Mbps
1TB	277.78 Mbps	92.59 Mbps	13.23 Mbps	3.09 Mbps
100GB	27.78 Mbps	9.26 Mbps	1.32 Mbps	0.31 Mbps
10GB	2.78 Mbps	0.93 Mbps	0.13 Mbps	0.03 Mbps
	Time to transfer			

Legend:

Requires less than 100Mbps throughput
Requires between 100Mbps and 10Gbps throughput
Requires between 10Gbps and 100Gbps throughput
Requires more than 100Gbps throughput

Note: Kilo, Mega, etc. are in SI units. E.g. 1KB is 1000 bytes, not 1024 bytes

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Throughput required to move Y bytes in X time

Bytes per second throughput

Data set size	1 Minute	5 Minutes	20 Minutes	1 Hour
	Time to transfer			
10PB	166.67 TB/sec	33.33 TB/sec	8.33 TB/sec	2.78 TB/sec
1PB	16.67 TB/sec	3.33 TB/sec	833.33 GB/sec	277.78 GB/sec
100TB	1.67 TB/sec	333.33 GB/sec	83.33 GB/sec	27.78 GB/sec
10TB	166.67 GB/sec	33.33 GB/sec	8.33 GB/sec	2.78 GB/sec
1TB	16.67 GB/sec	3.33 GB/sec	833.33 MB/sec	277.78 MB/sec
100GB	1.67 GB/sec	333.33 MB/sec	83.33 MB/sec	27.78 MB/sec
10GB	166.67 MB/sec	33.33 MB/sec	8.33 MB/sec	2.78 MB/sec
1GB	16.67 MB/sec	3.33 MB/sec	0.83 MB/sec	0.28 MB/sec
100MB	1.67 MB/sec	0.33 MB/sec	0.08 MB/sec	0.03 MB/sec

Data set size	8 Hours	24 Hours	7 Days	30 Days
	Time to transfer			
1XB	34.72 TB/sec	11.57 TB/sec	1.65 TB/sec	385.80 GB/sec
100PB	3.47 TB/sec	1.16 TB/sec	165.34 GB/sec	38.58 GB/sec
10PB	347.22 GB/sec	115.74 GB/sec	16.53 GB/sec	3.86 GB/sec
1PB	34.72 GB/sec	11.57 GB/sec	1.65 GB/sec	385.80 MB/sec
100TB	3.47 GB/sec	1.16 GB/sec	165.34 MB/sec	38.58 MB/sec
10TB	347.22 MB/sec	115.74 MB/sec	16.53 MB/sec	3.86 MB/sec
1TB	34.72 MB/sec	11.57 MB/sec	1.65 MB/sec	0.39 MB/sec
100GB	3.47 MB/sec	1.16 MB/sec	0.17 MB/sec	0.04 MB/sec
10GB	0.35 MB/sec	0.12 MB/sec	0.02 MB/sec	0.00 MB/sec

Legend:

Requires less than 100Mbps throughput
Requires between 100Mbps and 10Gbps throughput
Requires between 10Gbps and 100Gbps throughput
Requires more than 100Gbps throughput

Note: Kilo, Mega, etc. are in SI units. E.g. 1KB is 1000 bytes, not 1024 bytes

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