

Terascale (1 TB an Hour) DTN and Data Mobility Performance Chart

	<b>1Gbps DTN</b>	<b>10 Gbps DTN</b>		<b>40Gbps DTN</b>	<b>100Gbps DTN</b>	<b>400Gbps DTN</b>
<b>Transfer Rates</b>	<i>1/3 Terascale</i>	<i>Terascale</i>	<i>4 x Terascale</i>	<i>10 x Terascale</i>	<i>40 x Terascale</i>	<i>100 x Terascale</i>
<b>Volume (Researcher)</b>	333.3 GB/hr	1 TB/hr	4 TB/hr	10 TB/hr	40 TB/hr	100 TB/hr
<b>Transfer Rate (Network)</b>	740.7 Mb/s	2.2 Gb/s	8.9 Gb/s	22.2 Gb/s	88.9 Gb/s	222.2 Gb/s
<b>Transfer Rate (Sys/Storage)</b>	92.6 MB/s	277.8 MB/s	1.1 GB/s	2.8 GB/s	11.1 GB/s	27.8 GB/s

Petascale (1 PB a Week) DTN and Data Mobility Performance Chart

	<b>1Gbps DTN</b>	<b>10 Gbps DTN</b>	<b>40Gbps DTN</b>		<b>100Gbps DTN</b>	<b>400Gbps DTN</b>
<b>Transfer Rates</b>	<i>1/16 Petascale</i>	<i>1/2 Petascale</i>	<i>Petascale</i>	<i>2 x Petascale</i>	<i>4 x Petascale</i>	<i>20 x Petascale</i>
<b>Volume (Researcher)</b>	372 GB/hr	3 TB/hr	6 TB/hr	11.9 TB/hr	23.8 TB/hr	119 TB/hr
<b>Transfer Rate (Network)</b>	826.7 Mb/s	6.6 Gb/s	13.2 Gb/s	26.5 Gb/s	52.9 Gb/s	264.6 Gb/s
<b>Transfer Rate (Sys/Storage)</b>	103.3 MB/s	826.7 MB/s	1.7 GB/s	3.3 GB/s	6.6 GB/s	33.1 GB/s

Petascale 2.0 (1 PB a Day) DTN and Data Mobility Performance Chart

	<b>1Gbps DTN</b>	<b>10 Gbps DTN</b>	<b>40Gbps DTN</b>	<b>100Gbps DTN</b>	<b>400Gbps DTN</b>	
<b>Transfer Rates</b>	<i>1/128 Petascale 2.0</i>	<i>1/16 Petascale 2.0</i>	<i>1/3 Petascale 2.0</i>	<i>Petascale 2.0</i>	<i>2 x Petascale 2.0</i>	<i>4 x Petascale 2.0</i>
<b>Volume (Researcher)</b>	325.5 GB/hr	2.6 TB/hr	13.9 TB/hr	41.7 TB/hr	83.3 TB/hr	166.7 TB/hr
<b>Transfer Rate (Network)</b>	723.4 Mb/s	5.8 Gb/s	30.9 Gb/s	92.6 Gb/s	185.2 Gb/s	370.4 Gb/s
<b>Transfer Rate (Sys/Storage)</b>	90.4 MB/s	723.4 MB/s	3.9 GB/s	11.6 GB/s	23.1 GB/s	46.3 GB/s

Petascale 3.0 (1 PB a Hour) DTN and Data Mobility Performance Chart

	<b>1Gbps DTN</b>	<b>10 Gbps DTN</b>	<b>40Gbps DTN</b>	<b>100Gbps DTN</b>	<b>400Gbps DTN</b>	<b>&gt; 400Gbps DTN</b>
<b>Transfer Rates</b>	<i>1/4096 Petascale 3.0</i>	<i>1/256 Petascale 3.0</i>	<i>1/64 Petascale 3.0</i>	<i>1/32 Petascale 3.0</i>	<i>1/6 Petascale 3.0</i>	<i>Petascale 3.0</i>
<b>Data Transfer Volume (Researcher)</b>	244.1 GB/hr	3.9 TB/hr	15.6 TB/hr	31.3 TB/hr	166.7 TB/hr	1 PB/hr
<b>Transfer Rate (Network)</b>	542.5 Mb/s	8.7 Gb/s	34.7 Gb/s	69.4 Gb/s	370.4 Gb/s	2.2 Tb/s
<b>Transfer Rate (Sys/Storage)</b>	67.8 MB/s	1.1 GB/s	4.3 GB/s	8.7 GB/s	46.3 GB/s	277.8 GB/s

Exascale (1 EB a Month) DTN and Data Mobility Performance Chart

	<b>1Gbps DTN</b>	<b>10 Gbps DTN</b>	<b>40Gbps DTN</b>	<b>100Gbps DTN</b>	<b>400Gbps DTN</b>	<b>&gt; 400Gbps DTN</b>
<b>Transfer Rates</b>	<i>1/4096 Exascale</i>	<i>1/512 Exascale</i>	<i>1/128 Exascale</i>	<i>1/32 Exascale</i>	<i>1/8 Exascale</i>	<i>Exascale</i>
<b>Data Transfer Volume (Researcher)</b>	8.1 TB/day	65.1 TB/day	260.4 TB/day	1 PB/day	4.2 PB/day	33.3 PB/day
<b>Transfer Rate (Network)</b>	753.5 Mb/s	6 Gb/s	24.1 Gb/s	96.5 Gb/s	385.8 Gb/s	3.1 Tb/s
<b>Transfer Rate (Sys/Storage)</b>	94.2 MB/s	753.5 MB/s	3 GB/s	12.1 GB/s	48.2 GB/s	385.8 GB/s