

Massively Multi-Connection File Transfer Protocol (MMCFTP) is a file transfer protocol developed by NII for big data transmissions in fields of cutting-edge science & technology. It supports native multi-path transfers, which enable data transfer of over 100 Gbps speed.

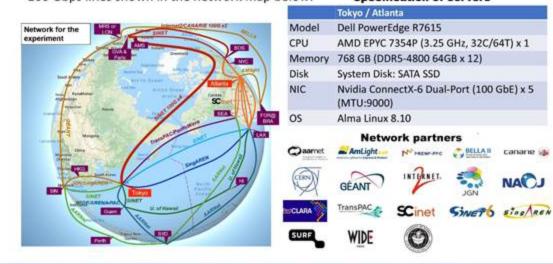
MMCFTP's data transfer experiments and results

Several data transfer experiments using MMCFTP's multi-path transfer function have been conducted. Results are shown in the table below. In these experiments, 10 TB-96 TB data was transferred by MMCFTP in a memory-to-memory configuration.

Event	Paths	Result
SC16	Tokyo - Seattle - Salt Lake City Tokyo - Los Angeles - Salt Lake City	150 Gbps
SC17	Tokyo - Seattle - Denver Tokyo - Los Angeles - Denver Tokyo - Hong Kong - Singapore - Los Angels - Denver	231 Gbps
SC19	1. Tokyo - Amsterdam - New York - Denver 2. Tokyo - Seattle - Denver 3. Tokyo - Los Angeles - Denver 4. Tokyo - Singapore - Los Angeles - Denver 5. Tokyo - Hong Kong - Singapore - London - New York - Denver	387.5 Gbps (Peak 416.3 Gbps)

Data transfer experiment at SC24

We will try data transfers by a pair of servers between Tokyo and Atlanta over 10 x 100 Gbps lines shown in the network map below. Specification of servers



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