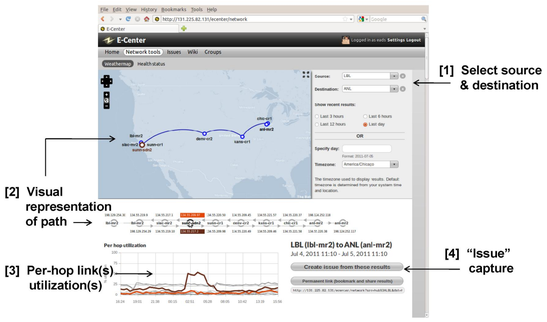
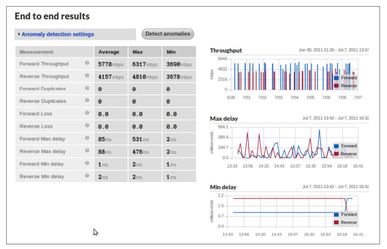
Advanced Network Technologies at Fermilab





E-Center: A Network Issues Portal Based On PerfSONAR Services

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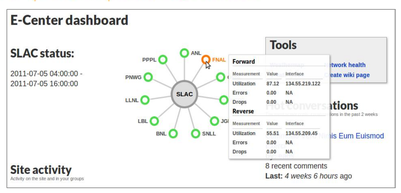
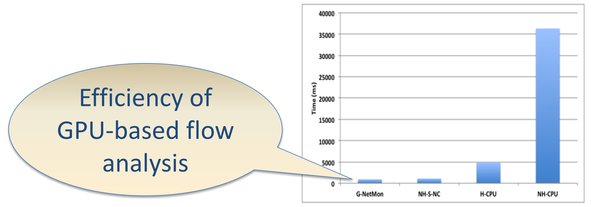
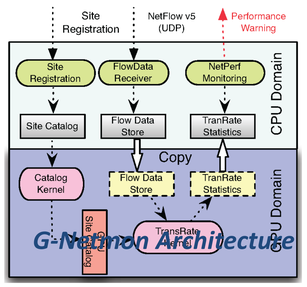
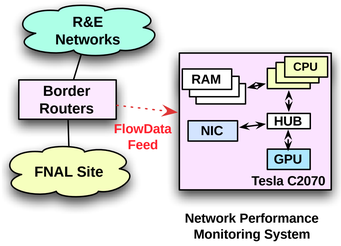




Time to process 50M flow records



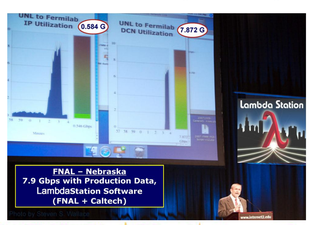
G-Netmon: GPU-based Flow Data Analysis



G-Netmon system

Developing & Deploying Advanced Technologies to meet the Challenges of Terabit Networks & Exascale Computing

LambdaStation: Network path selection service (2008)



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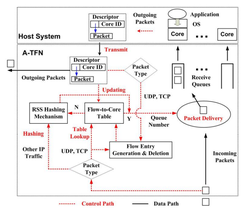
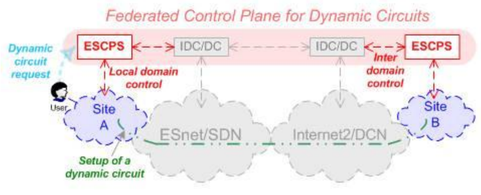
Virtual Circuit Services for High Impact Data Movement

A Transport-Friendly NIC (A-TFN): Binding network flows to their application's core in the NIC



Optimizing Network I/O Operations on Host Systems

End Site Control Plane System: Extending virtual circuit support into the LAN



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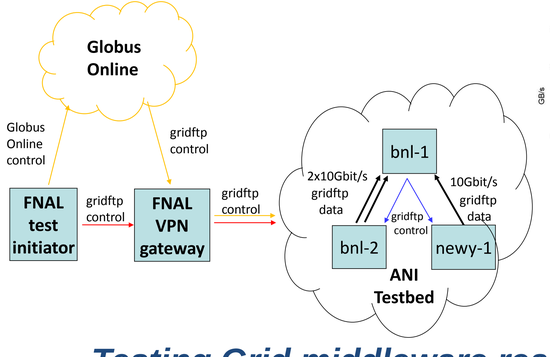
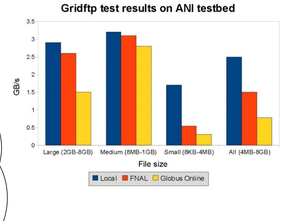
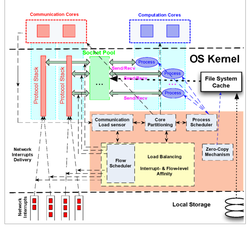
High Performance Middleware Evaluations in the ANI Test Bed





Testing Grid middleware readiness for 100 Gb/s technologies on the ANI Testbed



Multi-Core Architecture (MCA): Optimizing operating systems for efficient network I/O