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Enhanced Data Analysis at the DIII–D National Fusion Facility[1] D.P. SCHISSEL, C. CAMPO, Q. PENG, J. SCHACHTER, General Atomics, T. TERPSTRA, B. DAVIS, Princeton Plasma Physics Laboratory, B. MEYER, T.A. CASPER, Lawrence Livermore National Laboratory — The newly formed Data Analysis Group has begun implementing a long term plan to enhance data analysis capabilities at the DIII–D National Fusion Facility. The plan includes both hardware and software enhancements to increase the data analysis throughput and data retrieval rates. Hardware enhancements include a 3 TB mass data storage system, increased data network speed, 100 times faster data serving during tokamak operations, a 100 GB central user file storage system, and increased Unix CPU power efficiently utilized via load leveling software. Software enhancements focused on streamlined analysis, automation, and GUI systems to enlarge the user base. The Alcator C-Mod MDSplus data system has been adopted for analyzed data storage. A Web based data and code documentation system was created consistent with requirements of a large multi-institutional facility. Details of the group's long term plan and progress will be presented.

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☐ Prefer Oral Session
☒ Prefer Poster Session

Special instructions: DIII–D Poster Session II (divertor physics, disruptions, RF, & diagnostics), immediately following Brooks

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