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*Natalia Zaslavsky*

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- The HPC support team is a part of the JPL Information and Technology Solutions Directorate. I am a part of this team. We provide High-Performance Computing (HPC) resources and services to our scientific and engineering community. These resources include JPL-operated supercomputers, external supercomputers, and high-performance computing in the cloud.
- Common use cases include processing jobs for flight projects, navigation, climate physics, astrophysics and space science, water and carbon cycles, propulsion and fluid flight systems, as well as oceans and ice.
- On a daily basis I provide services to our cluster users regarding computer selection, configuration, administration, software installation and compilation, job scheduling, and cluster automation. I analyze users' serial and parallel codes and their job submission scripts helping to improve a workflow and overall performance.

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I would like to achieve in depth understanding of the different MPI implementations, i.e. MPI vs OpenMPI vs MPICH. Which characteristics have to be taken in consideration when choosing one over the other.