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Scalable SAR Processing

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Abstract

A new NASA program in High Performance Grand Challenge Computing will be discussed. The investigation seeks to capitalize on work started at the Jet Propulsion Laboratory and develop a core suite of SAR software in portable, scalable code targeted for MPP machines.
Performance results for SIR-C data processing will be discussed. The intent of the new three year program is to focus both on distributed network processing for high throughput situations that need to use several machines to balance the processing load and to develop access to interactive SAR processing initiated at the scientific workstation but executed on the large parallel machines. While current versions of the code extend through image formation only, interferometric extensions are being designed and will be added.
Keywords: