Dynamic Resource Management for a Sensor-Fusion Application via Distributed Parallel Grid Computing

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**Problem:** How does one build grid computing capability to enable real-time sensor data fusion?

- Real-time processing
- Streamed signal processing applications
- Dynamic resource management
- Guaranteed Quality-of-Service
- Failover fault tolerance

**Operator Assisted Search and Integration System (OASIS)**
Solution: Graph-based Network Resource Manager

- Determined most effective use of resources
- Launched application tasks on resources
- Ran multiple applications on same resources
- Demonstrated fault tolerant capabilities