

Monitoring System of the AMS Science Operation Centre

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The Alpha Magnetic Spectrometer (AMS) is a high energy physics experiment installed and operating on board of the International Space Station (ISS) from May 2011 and expected to last through Year 2024 and beyond. The Science Operation Centre is in charge of the offline computing for the AMS experiment, including flight data production, Monte-Carlo simulation, data management, data backup, etc. This paper introduces the design and implementation for the new monitoring system of AMS SOC, from the monitoring data collection (backend), to the visualisation (frontend). The system is designed to be distributed, collecting data from various sources in different AMS computing centres, and intelligent, attempting to analysis the causes of service incidents and to give resolving suggestions.

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