

ferent executable processes. This allows for the individual processes to be connected in an *a la carte* manner, making the feature set and executable complexity of SPOT adaptable to the needs of the user. Also, these processes need not be executed on the same workstation. This allows for communications between SPOT processes executing on the same Local Area Network (LAN). Thus, SPOT can be executed in a distributed sense with the capability for a team of flight controllers to efficiently share the same trajectory information currently being computed by the program.

SPOT is used in the Mission Control Center (MCC) for Space Shuttle Program (SSP) and International Space Station Program (ISSP) operations, and can also be used as a post-flight

analysis tool. It is primarily used for situational awareness, and for contingency situations.

This work was done by Jason T. Smith of Johnson Space Center and Sam J. Welsh, Antonio L. Farinetti, Tim Wegner, James Blakeslee, Toni F. Deboeck, Daniel Dyer, Bryan M. Corley, Jarmaine Ollivierre, Leonard Kramer, Patrick L. Zimmerman, and Reshma Khatri of United Space Alliance. Further information is contained in a TSP (see page 1). MSC-24482-1

Integrated Hybrid System Architecture for Risk Analysis

A conceptual design has been announced of an expert-system computer program, and the development of a pro-

totype of the program, intended for use as a project-management tool. The program integrates schedule and risk data for the purpose of determining the schedule applications of safety risks and, somewhat conversely, the effects of changes in schedules on changes on safety. It is noted that the design has been delivered to a NASA client and that it is planned to disclose the design in a conference presentation.

This work was done by Gary P. Moynihan, Daniel J. Fonseca, and Paul S. Ray of the University of Alabama for Johnson Space Center. For further information, contact the JSC Innovation Partnerships Office at (281) 483-3809.

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