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GAC Creates Hypersonic and Atmospheric Reentry Control Tool
The innovation could benefit NASA's interplanetary missions

By Tudor Vieru, Science Editor
16th of April 2009, 09:21 GMT

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Controlling a spacecraft while it exists or reenters the atmosphere, or while on the final descent for another moon or planet is a very tricky business, which currently requires years of planning, and just seconds to execute.

Among other applications for the new tool, the developer mentions aerodynamic orbital capture and aerodynamic gravity-assist capabilities as well, which means that the experts who will be using HyperCMST will have simulations of all the possible scenarios that may occur during an actual mission in this simulator.

Needless to say, the NASA American space agency is very interested in the future system, which could be a nice 'present' for its engineers. HyperCMST can model the optimum trajectories of a large number of very different spacecraft, and can also provide the readings necessary for the setup of an atmospheric capture system.

During this first stage, the developers at Global Aerospace Corp. will have to design a ballute (BALLoon-parachUTE) system, which is basically a very large inflatable object that can navigate through the atmosphere and that can also, at least in theory, make use of atmospheric drag to recover spacecraft stranded in orbit.

Ballutes could potentially be used to slow down large cargo packages heading for Mars or the Moon. They would help decelerate the parcels even in the very thin Martian atmosphere, and would ensure that a human expedition has everything it needs to survive.

TAGS: NASA | ballute | GAC | Mars | reentry

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