

An Adams Guy Does the Runge-Kutta¹

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Abstract: An 8th order explicit Runge-Kutta code, DXRK8, based on formulas of Dormand and Prince has been developed. It provides a wide variety of options and incorporates some (minor) new algorithms. Based on the testing presented here, the code compares well with other Runge-Kutta codes. Sufficient results are given for the reader to judge for themselves how this code compares with a variable order Adams code of the author's. The author remains a fan of multistep methods.

¹The work described in this paper was carried out at the Jet Propulsion Laboratory, California Institute of Technology, under contract with the National Aeronautics and Space Administration.

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