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Curvature conditions for extending the mean curvature flow and the Ricci flow.

We will discuss various curvature conditions that appear to be sufficient for having a smooth solution of the mean curvature flow and the Ricci flow. These can be viewed as the improvement of Hamilton's and Huisken's result for extending the Ricci flow and the mean curvature flow, respectively past some finite time T. (Received March 30, 2010)