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	authors	<ul style="list-style-type: none"><li>Christlieb, A.</li><li>Feng, X.</li><li>Jiang, Y.</li><li>Tang, Q.</li></ul>	authors	<ul style="list-style-type: none"><li>Andrew J. Christlieb</li><li>Xiao Feng</li><li>Yan Jiang</li><li>Qi Tang</li></ul>		
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	id	id5319566843128333265	id	id-5523034848141366321		
	abstract		abstract	A high-order finite difference numerical scheme is developed for the ideal magnetohydrodynamic equations based on an alternative flux formulation of the weighted essentially non-oscillatory (WENO) scheme. It computes a high-order numerical flux by a Taylor expansion in space, with the lowest-order term solved from a Riemann solver and the higher-order terms constructed from physical fluxes by limited central differences. The scheme coupled with several Riemann solvers, including a Lax-Friedrichs solver and HLL-type solvers, is developed on general curvilinear meshes in two dimensions and verified on a number of benchmark problems. In particular, a HLLD solver on Cartesian meshes is extended to curvilinear meshes with proper modifications. A numerical boundary condition for the perfect electrical conductor (PEC) boundary is derived for general geometry and verified through a bow shock flow. Numerical results also confirm the advantages of using low dissipative Riemann solvers in the current framework.		
	versions		versions			