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We consider an initial value problem for a class of generalized ODEs, also known as Kurzweil equations, and we prove the existence of an impulsive local semiflow there. As a consequence, we obtain the LaSalle invariance principle for this space of generalized equations. Then, from the correspondence between generalized ODEs and impulsive retarded functional differential equations, we also obtain a version of LaSalle invariance principle for retarded functional differential equations subject to pre-assigned moments of impulse action. (Received May 26, 2008)