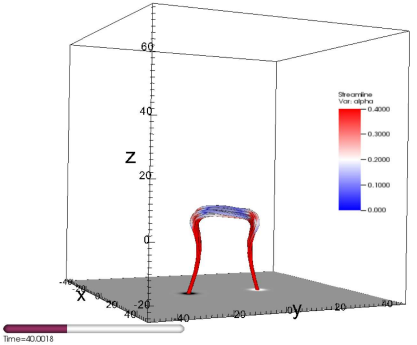
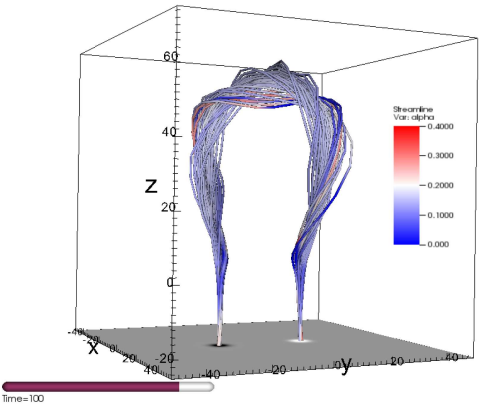
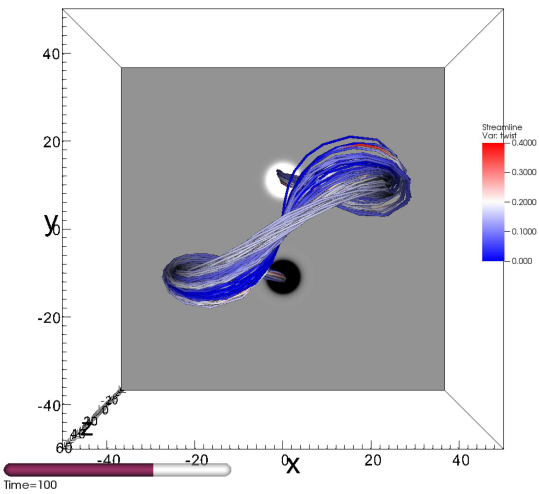


(a) $t = 40$.



(b) $t = 100$.



(c) $t = 100$.