i1

$\gamma = 0.20$

$M_{tar} = 0.01 M_\oplus$	M_{tar} $\bar{\rho} = 1.87 g/cm^3$ $\bar{h} = 8.51 * 10^6 cm$ 100104 particles M_{imp} $\bar{\rho} = 1.86 g/cm^3$ $\bar{h} = 8.84 * 10^6 cm$ 19994 particles $50\tau_{coll} = 49.52h$ @ v_{esc}
$M_{tar} = 0.1 M_\oplus$	M_{tar} $\bar{\rho} = 2.19 g/cm^3$ $\bar{h} = 1.73 * 10^7 cm$ 100104 particles M_{imp} $\bar{\rho} = 2.06 g/cm^3$ $\bar{h} = 1.83 * 10^7 cm$ 19994 particles $50\tau_{coll} = 46.24h$ @ v_{esc}
$M_{tar} = 1.0 M_\oplus$	M_{tar} $\bar{\rho} = 2.95 g/cm^3$ $\bar{h} = 3.36 * 10^7 cm$ 100087 particles M_{imp} $\bar{\rho} = 2.38 g/cm^3$ $\bar{h} = 3.69 * 10^7 cm$ 19991 particles $50\tau_{coll} = 41.00h$ @ v_{esc}