ME(SSY)**2: Output files

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Note: This is based on an excerpt of the original documentation written by Marc Freitag.

In the output files xxxxxxxxxx" is the number of the step. The + sign(s) indicate particularly useful output. A − sign indicate a file you will probably never need.

	File name	Incr	Format	Role
++	MyRun%xxxxxxxxxx%AMAS.xdr	n	xdr	Cluster structure (masses, velocity, positions of particles)
++	MyRun%xxxxxxxxxx%ETOILES.xdr	n	xdr	Cluster structure (stellar masses, types [MS,WD,NS,BH] and ages)
	MyRun%xxxxxxxxxx%TN.xdr	n	xdr	Masses of the "central black hole" and "central gas reservoir"
	MyRun%xxxxxxxxxx%MAREE.xdr	n	xdr	Value of tidal truncation radius
	MyRun%xxxxxxxxxx%TEMPS.xdr	n	xdr	Individual times of particles
	MyRun%xxxxxxxxxx%CONS.xdr	n	xdr	Data to allow accurate tracking of energy conservation in case of restart
	MyRun%xxxxxxxxxx%GRILLE.xdr	n	xdr	Radial grids to plot profiles (ρ, σ, β, etc)
−	MyRun%xxxxxxxxxx%PG.xdr	n	xdr	Radial grids used by code to estimate ρ and σ
−−	MyRun%xxxxxxxxxx%ARBRE.xdr	n	xdr	Binary tree used by code to store rank and potential info
−−	MyRun%xxxxxxxxxx%TH.bin	n	bin	Parameters for the selection of particle pairs (for debugging)
−	MyRun%xxxxxxxxxx%RAND.asc	n	ASCII	Internal variables of random generator (for restart continuing with same random sequence)
++	MyRun%%Log.asc	y	ASCII	Main log-file containing most of the useful information (also written to stdout)
++	MyRun%%RayLag.asc	y	ASCII	Lagrange radii evolution
+	MyRun%%Segr.asc	y	ASCII	Evolution of average stellar mass in Lagrange spheres
+	MyRun%%AniLag.asc	y	ASCII	Evolution of anisotropy (averaged in Lagrange spheres)
++?	MyRun%%LagQuant.asc	y	ASCII	Lagrangian quantities evolution (can replace the previous 3 files)
	MyRun%%MSpec.asc	y	ASCII	Some info to track evolution of the mass spectrum
+	MyRun%%MbinRad.asc	y	ASCII	Lagrange radii of particles in various bins of stellar mass
+	MyRun%%SuiviMS.asc	y	ASCII	Lagrange radii, and various quantities in Lagrange spheres for MS stars
+	MyRun%%SuiviWD.asc	y	ASCII	Same for white dwarfs
+	MyRun%%SuiviNS.asc	y	ASCII	Same for neutron stars
+	MyRun%%SuiviBH.asc	y	ASCII	Same for stellar black holes
	MyRun%%Tscale.asc	y	ASCII	Some (statistical) info about various time scales
	MyRun%%CaptGW.asc	y	ASCII	Info about "extreme mass-ratio inspirals" into central MBH (aka "GW captures")
	MyRun%%Coll.asc	y	ASCII	Info about collisions
	MyRun%%CollExcept.asc	y	ASCII	Info about collisions that required special treatment (extrapolation)
	MyRun%%Evap.asc	y	ASCII	Info about stars lost from the cluster through "evaporation"
	MyRun%%LC.asc	y	ASCII	Info about "loss cone" events (tidal disruptions, inspirals, etc)
	MyRun%%NatKicks.asc	y	ASCII	Info about NS and BH natal kicks
	MyRun%%StEvol.asc	y	ASCII	Info about stellar evolution (star/particle turning into remnant)
	MyRun%%StrongEncounters.asc	y	ASCII	Info about "super encounters" (to simulate 2-body relaxation) with large (cumulative) deflection angles
	MyRun%%SuiviSE.asc	y	ASCII	Info about some particles followed very closely
	MyRun%%SubPop.asc	y	ASCII	Info about subpopulation followed closely
	MyRun%%GlobRelax.asc	y	ASCII	Some global relaxation quantities
	MyRun%%Duplic.asc	y	ASCII	Log file of particle duplications
	MyRun%%LogSauv.asc	y	ASCII	Log file of "externally" requested snapshots
	PID	n	ASCII	PID of run (written once)
	PARAMS.asc	n	ASCII	Parameters actually used by run (written once)
	CaracCode.asc	n	ASCII	Value of many preprocessor variables at compile time (written once)
	Units.asc	n	ASCII	Physical units used by run (written once)

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	File name	Incr	Format	Role
	divers.asc	y	ASCII	Bits of info of dubious value (self-described)
	INFO	y	ASCII	Info about pid, host, start time & date (self-described)
	DONE	n	ASCII	To indicate that the run has finished (contains time and hostname)
–	_test_TMS.asc	n	ASCII	Relation mass–MS lifetime (for checking purposes)
–	_test_Remn.asc	n	ASCII	Relation ZAMS mass → remnant mass and type (for checking purposes)
–	_test_MRrelMS.asc	n	ASCII	Main-Sequence Mass-Radius relation (for checking purposes)
–	_test_ParamStellEvol.asc	n	ASCII	Parameters for stellar evolution (for checking purposes)