GEANT processing times (sec/event)

Run Type	Mu+ (spin) only	Mu+ (no spin) only	Mu+ (spin) -> e+	e+ only
Control	0.0620	0.0507	0.2543	0.2130
Annihilation				
ANNI = 1	N/A	N/A	0.2713	0.2034
ANNI = 2	N/A	N/A	0.2620	0.2208
Bremsstrahlung				
BREM = 1	0.0625	0.0510	0.2713	0.2236
BREM = 2	0.0626	0.0510	0.2778	0.2271
Delta Ray production*				
DRAY = 0	0.0609	0.0491	0.2747	0.2086
DRAY = 1	0.0615	0.0506	0.3081	0.2398
DRAY = 2	0.0616	0.0499	0.2694	0.2076
Mu Nuclear Interactions				
MUNU = 1	0.0624	0.0513	N/A	N/A
MUNU = 2	0.0627	0.0513	N/A	N/A
Direct e+/e- pair production				
PAIR = 1	0.0631	0.0510	0.2562	0.2119
PAIR = 2	0.0632	0.0509	0.2563	0.2116

* Please note that when DRAY is used, the data card LOSS must be set to a value of 1.
This differs from the control, which uses LOSS=2.

Number of Mechanisms per event

	Mu+ (spin) only	Mu+ (no spin) only	Mu+ (spin) -> e+	e+ only
Annihilation				
ANNI = 1	N/A	N/A	0.1053	0.1034
ANNI = 2	N/A	N/A	0.1116	0.1062
Bremsstrahlung				
BREM = 1	0.0000	0.0000	0.7020	0.6944
BREM = 2	0.0000	0.0000	0.6895	0.6984
Delta Ray production*				
DRAY = 0	0.0000	0.0000	0.0000	0.0000
DRAY = 1	0.0000	0.0000	0.6590	0.6348
DRAY = 2	0.0000	0.0000	0.6368	0.6171
Mu Nuclear Interactions				
MUNU = 1	0.0000	0.0000	N/A	N/A
MUNU = 2	0.0000	0.0000	N/A	N/A
Direct e+/e- pair production				
PAIR = 1	0.0000	0.0000	0.0000	0.0000
PAIR = 2	0.0000	0.0000	0.0000	0.0000